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**KIPS FINAL SESSION
FLP-4**

PREPARED BY SAEED MDCAT TEAM

SPECIAL COOPERATION OF #UBAIDRASHID

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Biology

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FLP-4 (Complete Syllabus)

02:29:38

150 min 1/200

Damage to which one of the following immediately kills the cell whether it is prokaryotic or eukaryotic:

- A) Mitochondria
- B) Cell wall
- C) Cell membrane
- D) Golgi apparatus

A B C D

First Prev Next Last Finish

02:29:10



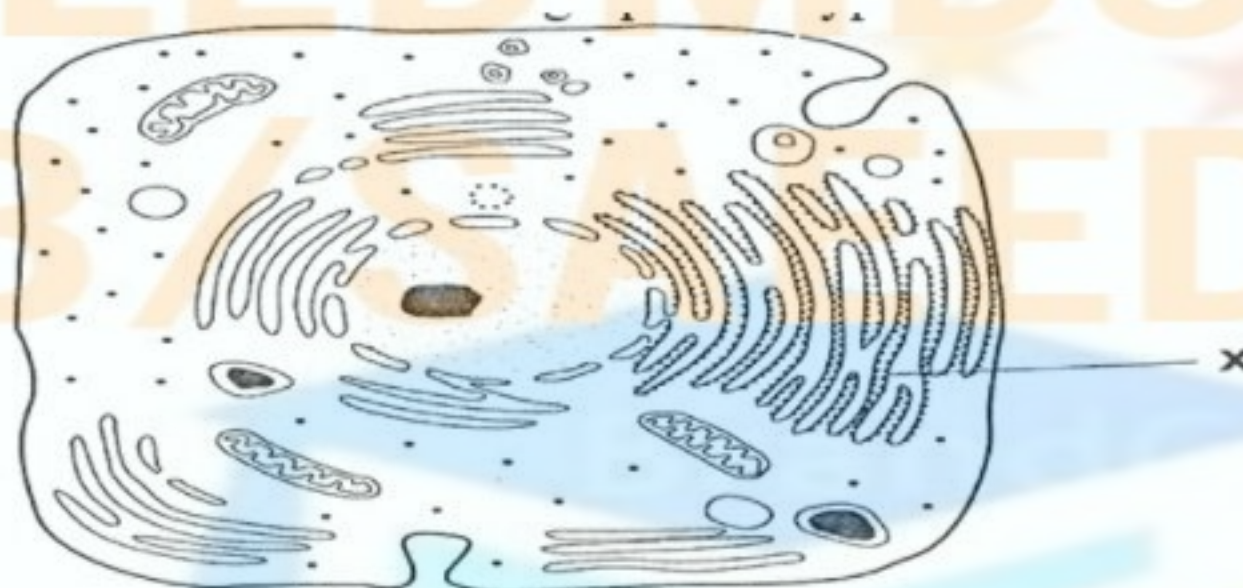
150 min



2/200

FLP-4 (Complete Syllabus)

The diagram shows an electron micrograph of a typical animal cell:



What is the function of the membrane structure labeled 'X'?

- A) Lipid synthesis
- B) Lipid synthesis and transport
- C) Protein synthesis
- D) Protein synthesis and transport

A ☐ B ☐ C ☐ D ☐

First ⏪

Prev ⏩

Next ⏪

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Finish ✓

Biology

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Biology

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FLP-4 (Complete Syllabus)

02:28:56

150 min 3/200

Identify the correct option with respect to chemical composition of cell membrane:

- A) Proteins 60-80% Lipids 20-40% Carbohydrates Small quantity
- B) Proteins 20-40% Lipids 60-80% Carbohydrates Small quantity
- C) Proteins Small quantity Lipids 20-40% Carbohydrates 60-80%
- D) Proteins 60-80% Lipids Small quantity Carbohydrates 20-40%

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:45

150 min 4/200

Functionally, mesosomes can be compared with:

- A) Ribosomes
- B) Mitochondria
- C) Polysomes
- D) Golgi bodies

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:40

150 min 5/200

Pick the correct answer with respect to the following reaction:
Carbohydrate + Protein → Glycoprotein

- A) Lysosome
- B) Mitochondria
- C) Smooth endoplasmic reticulum
- D) Golgi apparatus

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:37

150 min 6/200

Endoplasmic reticulum contains a system of flattened membrane bounded sacs which are named as:

- A) Cristae
- B) Marks
- C) Cisternae
- D) Tubules

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:35

150 min 7/200

It is the most abundant biological molecule found in protoplasm:

- A) Proteins
- B) Carbohydrates
- C) Water
- D) Lipids

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:33

150 min 8/200

_____are the major sites for the storage of glycogen in animal's body.

- A) Muscles and liver
- B) Around thighs and belly
- C) Around belly and hips
- D) Liver and kidneys

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:30

150 min 9/200

It is an example of N-containing polysaccharide:

- A) Cellulose
- B) Starch
- C) Chitin
- D) Glycogen

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:29

150 min 10/200

How many water molecules are released during the synthesis of one molecule of triglyceride?

- A) 1
- B) 2
- C) 3
- D) 4

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:27

150 min 11/200

In an insulin molecule, the polypeptide chains are held together by:

- A) Peptide bond
- B) Hydrogen bond
- C) Disulphide bridges
- D) Ionic interaction

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:25

150 min 12/200

The diameter of DNA molecule is constant because of:

- A) Two polynucleotide chains
- B) Purines are always forming H-bonds with pyrimidine
- C) Sugar-phosphate backbone
- D) High molecular weight

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:23

150 min 13/200

Precursor activation is the activation of an enzyme controlled reaction by:

- A) Initial substrate
- B) Intermediate substances
- C) Final product
- D) Inhibitor

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:22

150 min 14/200

Extreme change in pH causes denaturation of enzyme by breaking:

- A) Peptide bonds
- B) Disulphide bonds
- C) Hydrogen bonds
- D) Ionic bonds

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:20

150 min 15/200

Which of the following bond will not break if an enzyme molecule is denatured?

- A) Disulphide bond
- B) Peptide bond
- C) Hydrogen bonds
- D) Hydrophobic interaction

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:19

150 min 16/200

Which of the following does not contain a five-carbon sugar?

- A) RuBP
- B) NAD⁺
- C) FAD
- D) Rubisco

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:17

150 min 17/200

All of the following are characteristics of head of chlorophyll except:

- A) Flat and square
- B) Contains magnesium
- C) Light absorbing
- D) Hydrophobic

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:15

150 min 18/200

All of the following functions are performed by carotenoids except:

- A) Broaden the absorption spectrum
- B) Protection of chlorophyll molecules
- C) Protection of human eyes
- D) Formation of ATP and NADPH

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:14

150 min 19/200

Difference between PS-I and PS-II in plants mainly lies in:

- A) Primary electron acceptor
- B) Antenna complex
- C) Chlorophyll 'a'
- D) Chlorophyll 'b'

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:12

150 min 20/200

In glycolysis, water molecules are released when:

- A) BPG is converted into 3PG
- B) 3-PG is converted into 2-PG
- C) 2-PG is converted into PEP
- D) PEP is formed from pyruvate

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:11

150 min 21/200

It involves complete breakdown of glucose molecule:

- A) Aerobic respiration
- B) Anaerobic respiration
- C) Lactate fermentation
- D) Alcoholic fermentation

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:09

150 min 22/200

The step in which NADH is formed without decarboxylation:

- A) Pyruvate oxidation
- B) Alcoholic fermentation
- C) Conversion of α -ketoglutarate to succinate
- D) Conversion of malate into oxaloacetate

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:08

150 min 23/200

The process of conversion of single stranded RNA molecule into double stranded DNA is carried out in:

- A) Capsid of HIV
- B) Envelope of HIV
- C) Cytoplasm of T-cells
- D) Nucleoplasm of T-cells

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:06

150 min 24/200

The universal structure of all living organisms is _____ which is not related to viruses.

- A) Protein
- B) RNA
- C) DNA
- D) Ribosomes

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:05

150 min 25/200

HIV causes acquired immunodeficiency syndrome because it primarily attacks on:

- A) Nervous system
- B) Immune system
- C) Reproductive system
- D) Circulatory system

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:03

150 min 26/200

It is an example of acellular infectious entity that contain both protein and nucleic acid:

- A) Prions
- B) Viroids
- C) Viruses
- D) Bacteria

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:02

150 min 27/200

Curved or comma shaped bacteria are called:

- A) Bacilli
- B) Vibrio
- C) Spirilla
- D) Spirochete

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:28:01

150 min 28/200

As compared to eukaryotic cell, plasma membrane in bacterial cell has also role in:

- A) Transportation
- B) Regulation
- C) Respiration
- D) Nerve impulse conduction

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:27:59

150 min 29/200

During nuclear mitosis, _____ does not occur.

- A) Spindle formation from centrioles
- B) Equal distribution of chromosomes
- C) Division of chromosomes
- D) Nuclear envelope remains intact

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:27:57

150 min 30/200

Which group of protozoa moves with help of pseudopodia?

- A) Amoebae
- B) Foraminifera
- C) Actinopods
- D) All a, b, c

A B C D

First Prev Next Last Finish

Biology

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- 37 38 39 40

FLP-4 (Complete Syllabus)

02:27:56

150 min 31/200

Internal buds formed in sponges as a result of asexual reproduction are called:

- A) Choanocytes
- B) Gemmules
- C) Polyps
- D) Medusae

A B C D

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Biology

- 1 2 3 4
- 5 6 7 8
- 9 10 11 12
- 13 14 15 16
- 17 18 19 20
- 21 22 23 24
- 25 26 27 28
- 29 30 31 32
- 33 34 35 36
- 37 38 39 40

FLP-4 (Complete Syllabus)

02:27:54

150 min 32/200

Non flowering, seed producing plants are:

- A) Ferns
- B) Gymnosperms
- C) Whisk ferns
- D) Angiosperms

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:27:53

150 min 33/200

Whisk ferns is common name of members of:

- A) Psilopsida
- B) Lycopsida
- C) Sphenopsida
- D) Pteropsida

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:27:51

150 min 34/200

What is the means of transport through which sucrose moves into sieve tube of source and out of sieve tube at sink?

- A) Simple diffusion
- B) Facilitated diffusion
- C) Active transport
- D) Passive transport

A B C D

First Prev Next Last Finish

Biology

- 1 2 3 4
- 5 6 7 8
- 9 10 11 12
- 13 14 15 16
- 17 18 19 20
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- 29 30 31 32
- 33 34 35 36
- 37 38 39 40

FLP-4 (Complete Syllabus)

02:27:50

150 min 35/200

Blood returning to the heart via pulmonary vein is drained into:

- A) Vena cava
- B) Left atrium
- C) Right atrium
- D) Left ventricle

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:27:49

150 min 36/200

After a fatty meal, fat globules may make up to _____% of the lymph.

- A) 10%
- B) 90%
- C) 1%
- D) 99%

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:27:47

150 min 37/200

Which is the lymphoid mass among following?

- A) Liver
- B) Thoracic duct
- C) Tonsillitis
- D) Adenoid

A B C D

First Prev Next Last Finish

Biology

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- 33 34 35 36
- 37 38 39 40

FLP-4 (Complete Syllabus)

02:27:46

150 min 38/200

Antibodies are secreted in all of the following except:

- A) Blood
- B) Milk
- C) Lymph
- D) Urine

A B C D

First Prev Next Last Finish

Biology

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FLP-4 (Complete Syllabus)

02:27:44

150 min

39/200

Large antigen-antibody complexes will form if there are multiple copies of antigenic molecules on which cells?

- A) T-Cells
- B) Natural killer cells
- C) B-cells
- D) Foreign cells

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Biology

- 1 2 3 4
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- 9 10 11 12
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- 17 18 19 20
- 21 22 23 24
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- 45 46 47 48

FLP-4 (Complete Syllabus)

02:27:32

🕒 150 min Ⓞ 40/200

Identify the components/structure produce by the B-lymphocytes:

- | | | |
|-------------------------------|----------------|----------------------|
| A) Killer lymphocyte clones ✓ | Memory cells ✓ | Plasma clone cells ✗ |
| B) Killer lymphocyte clones ✓ | Memory cells ✗ | Plasma clone cells ✓ |
| C) Killer lymphocyte clones ✓ | Memory cells ✓ | Plasma clone cells ✓ |
| D) Killer lymphocyte clones ✗ | Memory cells ✓ | Plasma clone cells ✓ |

A ☐ B ☐ C ☐ D ☐

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Finish ✓

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Chemistry

81

82

83

84

Main task assigned to collecting duct is to:

- A) Filter blood
- B) Produce secretions
- C) Concentrate urine
- D) Dilute urine

A ☐

B ☐

C ☐

D ☐

41 42 43 44
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65 66 67 68
69 70 71 72
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Chemistry
81 82 83 84

FLP-4 (Complete Syllabus) 02:27:00 150 min 42/200

Most concentrated interstitial fluid is present in _____ of kidney.

- A) Outer cortex
- B) Inner cortex
- C) Inner medulla
- D) Outer medulla

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

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57 58 59 60
61 62 63 64
65 66 67 68
69 70 71 72
73 74 75 76
77 78 79 80
Chemistry
81 82 83 84

FLP-4 (Complete Syllabus) 02:26:58 150 min 43/200

Cells named podocytes occur in:

- A) PCT of nephron
- B) Glomerular capillarie
- C) Outer wall of Bowman's capsules
- D) Inner wall of Bowman's capsules

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

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49 50 51 52

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57 58 59 60

61 62 63 64

65 66 67 68

69 70 71 72

73 74 75 76

77 78 79 80

Chemistry

81 82 83 84

FLP-4 (Complete Syllabus) 02:26:57 150 min 44/200

Peritubular capillaries arise from subdivision of:

- A) Afferent arterioles
- B) Efferent arterioles
- C) Vasa recta
- D) Renal artery

A B C D

First Prev Next Last Finish

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61 62 63 64
65 66 67 68
69 70 71 72
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Chemistry
81 82 83 84

FLP-4 (Complete Syllabus) 02:26:55 150 min 45/200

Identify the mis-matched pair:

- A) Identify the mis-matched pair:
- B) Non-shivering thermogenesis: Thyroid hormones
- C) Non-shivering thermogenesis: Thyroid hormones
- D) Thermostat: Hypothalamus

A B C D

First Prev Next Last Finish

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65 66 67 68
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77 78 79 80
Chemistry
81 82 83 84

FLP-4 (Complete Syllabus) 02:26:54 150 min 46/200

Bundle of collagen, non-elastic fibres that attach muscle to bone are:

- A) Capsule
- B) Belly
- C) Tendon
- D) Ligament

A B C D

First Prev Next Last Finish

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49 50 51 52

53 54 55 56

57 58 59 60

61 62 63 64

65 66 67 68

69 70 71 72

73 74 75 76

77 78 79 80

Chemistry

81 82 83 84

FLP-4 (Complete Syllabus) 02:26:52 150 min 47/200

When undergoing physical exercise, healthy adult skeletal muscle is likely to respond with an increase in all of the following except:

- A) Glycolysis
- B) The citric acid cycle
- C) Cell division
- D) Protein production

A B C D

First Prev Next Last Finish

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65 66 67 68
69 70 71 72
73 74 75 76
77 78 79 80
Chemistry
81 82 83 84

FLP-4 (Complete Syllabus) 02:26:50 150 min 48/200

Irregular strips, involuntary control and branched nature is related to which type of muscle:

- A) Skeletal muscles
- B) Visceral muscles
- C) Cardiac muscles
- D) Smooth muscles

A B C D

First Prev Next Last Finish

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Chemistry
81 82 83 84

During resting state, the neurolemma is virtually impermeable to all ions except:

- A) Na^+
- B) Cl^-
- C) HCO_3^{-1}
- D) K^+

A ☐ B ☐ C ☐ D ☐

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Chemistry
81 82 83 84

FLP-4 (Complete Syllabus)

02:26:39
HH MM SS

150 min 50/200

Which of the following membrane potential depicts hyperpolarization?

- A) -50mV
- B) +50mV
- C) -90mV
- D) -70mV

A B C D

First Prev Next Last Finish

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49 50 51 52

53 54 55 56

57 58 59 60

61 62 63 64

65 66 67 68

69 70 71 72

73 74 75 76

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Chemistry

81 82 83 84

FLP-4 (Complete Syllabus) 02:26:38 150 min 51/200

All of the following are examples of neurotransmitters except:

- A) Acetylcholin
- B) Heparin
- C) Serotonin
- D) Dopamine

A B C D

First Prev Next Last Finish

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Chemistry
81 82 83 84

FLP-4 (Complete Syllabus) 02:26:37 150 min 52/200

Chemically, hormones may be of:

- A) Two types
- B) Four types
- C) Six types
- D) Ten types

A B C D

First Prev Next Last Finish

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53 54 55 56
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69 70 71 72
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Chemistry
81 82 83 84

FLP-4 (Complete Syllabus)

02:26:35

150 min 53/200

In diabetes mellitus, the toxic metabolites from catabolism of fats may accumulate and are only lost from the kidneys with:

- A) Valuable anions
- B) Valuable proteins
- C) N-containing waste substances
- D) Valuable metal cations

A B C D

First Prev Next Last Finish

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65 66 67 68
69 70 71 72
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Chemistry
81 82 83 84

FLP-4 (Complete Syllabus) 02:26:34 150 min 54/200

Follicular phase of ovarian cycle begins with:

- A) Development of follicle
- B) Rupture of mature follicle
- C) Ovulation
- D) Release of estrogen

A B C D

First Prev Next Last Finish

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65 66 67 68

69 70 71 72

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77 78 79 80

Chemistry

81 82 83 84

FLP-4 (Complete Syllabus) 02:26:33 150 min 55/200

It is the phase of female reproductive cycle that lasts for 3-7 days and is caused due to drop in progesterone level:

- Follicular phase
- A)
- B) Ovulation phase
- C) Luteal phase
- D) Menstrual phase

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

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61 62 63 64
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73 74 75 76
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Chemistry
81 82 83 84

FLP-4 (Complete Syllabus) 02:26:31 150 min 56/200

Sexually transmitted disease which destroys immune system of infected person:

- A) AIDS
- B) Syphilis
- C) Gonorrhea
- D) Genital herpes

A B C D

First Prev Next Last Finish

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49 50 51 52

53 54 55 56

57 58 59 60

61 62 63 64

65 66 67 68

69 70 71 72

73 74 75 76

77 78 79 80

Chemistry

81 82 83 84

FLP-4 (Complete Syllabus) 02:26:30 150 min 57/200

Mendel is famous for his work on:

- A) *Pisum sativum*
- B) *Drosophila melanogester*
- C) Neurospora
- D) *E. coli*

A B C D

First Prev Next Last Finish

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65 66 67 68

69 70 71 72

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77 78 79 80

Chemistry

81 82 83 84

FLP-4 (Complete Syllabus) 02:26:28 150 min 58/200

Mendel's law of independent assortment holds applicable for genes situated on:

- A) Non-homologous chromosomes
- B) Homologous chromosomes
- C) Extra nuclear genetic element
- D) Some chromosome

A B C D

First Prev Next Last Finish

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53 54 55 56

57 58 59 60

61 62 63 64

65 66 67 68

69 70 71 72

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Chemistry

81 82 83 84

FLP-4 (Complete Syllabus) 02:26:27 150 min 59/200

The monohybrid genotypic ratio 1:2:1 in F_2 generation indicates:

- A) Dominance
- B) b. Incomplete dominance
- C) Segregation of alleles
- D) Independent assortment

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

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Chemistry

81 82 83 84

FLP-4 (Complete Syllabus) 02:26:25 150 min 60/200

If probability of wrinkled seed is $\frac{1}{4}$ and yellow seed is $\frac{3}{4}$ then probability for round green seed plant will be:

- A) $\frac{1}{16}$
- B) $\frac{3}{16}$
- C) $\frac{4}{16}$
- D) $\frac{9}{16}$

A B C D

First Prev Next Last Finish

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61 62 63 64
65 66 67 68
69 70 71 72
73 74 75 76
77 78 79 80
Chemistry
81 82 83 84

FLP-4 (Complete Syllabus) 02:26:23 150 min 61/200

Drosophila has four pairs of chromosomes. How many linkage groups does it has?

- A) Eight
- B) Four
- C) One less than the pairs of chromosomes
- D) One more than the pairs of chromosomes

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

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49 50 51 52

53 54 55 56

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61 62 63 64

65 66 67 68

69 70 71 72

73 74 75 76

77 78 79 80

Chemistry

81 82 83 84

FLP-4 (Complete Syllabus) 02:26:22 150 min 62/200

In humans, the male has the following combination of chromosomes:

- A) 44 AA + XO
- B) 44 AA + XX
- C) 44 AA + XY
- D) 44 AA + XXY

A B C D

First Prev Next Last Finish

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49 50 51 52

53 54 55 56

57 58 59 60

61 62 63 64

65 66 67 68

69 70 71 72

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77 78 79 80

Chemistry

81 82 83 84

FLP-4 (Complete Syllabus) 02:26:20 150 min 63/200

A female is carrier for hemophilia marries with a normal male. Daughters of such a female would be:

- A) 50% normal and 50% carrier
- B) 50% normal and 50% hemophilic
- C) 50% carrier and 50% hemophilic
- D) 25% carrier and 75% hemophilic

A B C D

First Prev Next Last Finish

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Chemistry
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FLP-4 (Complete Syllabus) 02:26:19 150 min 64/200

What is the function of the enzyme DNA polymerase in a cell?

- A) To synthesize a polypeptide using DNA as a template
- B) To synthesis a stand of DNA using a polypeptide as a template
- C) To synthesize a strand of DNA using DNA as a template
- D) To synthesize a strand of mRNA using DNA as a template

A B C D

First Prev Next Last Finish

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Chemistry

81 82 83 84

FLP-4 (Complete Syllabus) 02:26:17 150 min 65/200

What terminates the formation of a polypeptide chain during protein synthesis in the cell?

- A) When a stop codon is reached on the mRNA molecule
- B) When a stop codon is reached on the mRNA molecule
- C) When the ribosome reaches the end of the mRNA molecule
- D) When the ribosome reaches the end of the tRNA molecule

A B C D

First Prev Next Last Finish



Koole



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Chemistry

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85 86 87 88

89 90 91 92

93 94 95 96

FLP-4 (Complete Syllabus)

02:26:04

HH

MM

SS



150 min



66/200

An unidentified single-stranded molecule was described as having the following features:

1. Complementary base pairing along some of its length
2. An area that can attach to a ribosome
3. A site to which a specific amino acid attaches

What is the unidentified molecule?

A) Sigma factor

B) mRNA

C) rRNA

D) tRNA

A ☐ B ☐ C ☐ D ☐

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Koole



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Chemistry

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89 90 91 92

93 94 95 96

FLP-4 (Complete Syllabus)

02:25:53

HH

MM

SS



150 min



67/200

Which statements are correct about DNA transcription and translation?

Transcription
Is semi-conservative

Translation
Produces mRNA

A)

Transcription
Produces mRNA

Translation
Is semi-conservative

B)

Transcription
Occurs at the surface of ribosomes

Translation
Produces mRNA

C)

Transcription
D) Produces mRNA

Translation
Occurs at the surface of ribosomes

A ☐ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

02:25:48

150 min 68/200

In a DNA molecule, the base sequence AGT codes for the amino acid serine. What is the base sequence of the anti-codon on the tRNA to which serine becomes attached?

- A) AGU
- B) GAU
- C) TCA
- D) UCA

A B C D

First Prev Next Last Finish



Koole



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Chemistry

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89 90 91 92

93 94 95 96

FLP-4 (Complete Syllabus)

02:25:40

HH

MM

SS



150 min



69/200

Which type of sugar and types of bonds are found in a DNA molecule?

- A) Type of sugar Non-reducing
Types of bonds Hydrogen and ionic
- B) Type of sugar Non-reducing
Types of bonds Hydrogen and peptide
- C) Type of sugar Reducing
Types of bonds Covalent and hydrogen
- D) Type of sugar Reducing
Types of bonds Hydrogen and peptide

A ☐ B ☐ C ☐ D ☐

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Chemistry
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FLP-4 (Complete Syllabus) 02:25:36 150 min 70/200

Phenylketonuria is example of:

- A) Polyploidy
- B) Translocation
- C) Inversion
- D) Point mutation

A B C D

First Prev Next Last Finish

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Chemistry
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FLP-4 (Complete Syllabus) 02:25:34 150 min 71/200

The raw material for organic evolution is:

- A) Asexual reproduction
- B) Nutritive substances
- C) Mutation
- D) Effect of hormones

A B C D

First Prev Next Last Finish

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Chemistry
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FLP-4 (Complete Syllabus)

02:25:33
HH MM SS

150 min 72/200

Which one of the following is not a character of fossils?

- A) Actual remains of ancient organisms
- B) Traces of ancient organisms
- C) Living
- D) May be embedded in sand, resin or ice

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

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53 54 55 56
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Chemistry
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FLP-4 (Complete Syllabus) 02:25:31 150 min 73/200

May be embedded in sand, resin or ice

- A) DNA and protein
- B) DNA and lipids
- C) DNA and carbohydrates
- D) DNA and RNA

A B C D

First Prev Next Last Finish

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69 70 71 72
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Chemistry
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FLP-4 (Complete Syllabus) 02:25:30 150 min 74/200

Which of the following were the earliest to evolve on Earth?

- A) Plants
- B) Prokaryotes
- C) Protists
- D) Fish

A B C D

First Prev Next Last Finish

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53 54 55 56
57 58 59 60
61 62 63 64
65 66 67 68
69 70 71 72
73 74 75 76
77 78 79 80
Chemistry
81 82 83 84

FLP-4 (Complete Syllabus) 02:25:29 150 min 75/200

Genes for antibiotic resistance are located on:

- A) Bacterial genome
- B) Plasmids
- C) Mesosomes
- D) Plasma membrane

A B C D

First Prev Next Last Finish

41 42 43 44
45 46 47 48
49 50 51 52
53 54 55 56
57 58 59 60
61 62 63 64
65 66 67 68
69 70 71 72
73 74 75 76
77 78 79 80
Chemistry
81 82 83 84

FLP-4 (Complete Syllabus) 02:25:28 150 min 76/200

The polymerase chain reaction:

- A) Uses RNA polymerase
- B) Takes place in huge bioreactors
- C) Uses DNA polymerase
- D) Makes lot of non-identical DNA copies

A B C D

First Prev Next Last Finish

41 42 43 44
45 46 47 48
49 50 51 52
53 54 55 56
57 58 59 60
61 62 63 64
65 66 67 68
69 70 71 72
73 74 75 76
77 78 79 80
81 82 83 84

Chemistry

FLP-4 (Complete Syllabus) 02:25:26 150 min 77/200

Identify the incorrectly matched pair.

- A) Identify the incorrectly matched pair.
- B) Protoplast – plant cell engineering
- C) DNA fragments – DNA fingerprinting
- D) DNA polymerase – PCR

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

41 42 43 44

45 46 47 48

49 50 51 52

53 54 55 56

57 58 59 60

61 62 63 64

65 66 67 68

69 70 71 72

73 74 75 76

77 78 79 80

81 82 83 84

Chemistry

FLP-4 (Complete Syllabus)

02:25:25

150 min 78/200

Restriction enzymes found in bacterial cells are commonly used:

- A) During DNA replication
- B) To degrade the bacterial cell's DNA
- C) To degrade viral DNA
- D) To attach pieces of DNA together

A B C D

First Prev Next Last Finish

41 42 43 44

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57 58 59 60

61 62 63 64

65 66 67 68

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73 74 75 76

77 78 79 80

81 82 83 84

Chemistry

FLP-4 (Complete Syllabus)

02:25:23

150 min 79/200

Common method that is considered suitable to get a large quantity of gene or protein products is:

- A) Gene pooling
- B) PCR
- C) Recombinant DNA technology
- D) Hydroponic culture

A B C D

First Prev Next Last Finish

41 42 43 44

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49 50 51 52

53 54 55 56

57 58 59 60

61 62 63 64

65 66 67 68

69 70 71 72

73 74 75 76

77 78 79 80

81 82 83 84

Chemistry

FLP-4 (Complete Syllabus) 02:25:22 150 min 80/200

These are used to produce genetically engineered polyhydroxy butyrate:

- A) Bacterial species
- B) Plants species
- C) Fungal species
- D) Weed species

A B C D

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:59

150 min 81/200

Number of electrons in 1.7g of OH^- are

- A) $1.5N_A$
- B) N_A
- C) $0.1 N_A$
- D) $0.5 N_A$

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:56

150 min 82/200

42g of N_2 react with excess of oxygen to produce amount of 'NO' is

- A) 90g
- B) 60g
- C) 45g
- D) 32g

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:55

150 min 83/200

8g of unknown gas at 1atm pressure and 0°C occupy volume of 11.207 dm³. Unknown gas is

- A) NH₃
- B) CH₄
- C) O₂
- D) Cl₂

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:54

150 min 84/200

Gas having marked attractive forces if value of compressibility factor's 'Z' is

- A) 0.2
- B) 1
- C) 1.5
- D) 1.8

A B C D

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:53

150 min 85/200

Molten or aqueous NaCl conduct current due to

- A) Loose packing
- B) Free electrons
- C) Free electrons and ions
- D) Translatory motion of ions

A B C D

First Prev Next Last Finish

Chemistry

- 81 82 83 84
- 85 86 87 88
- 89 90 91 92
- 93 94 95 96
- 97 98 99 100
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- 105 106 107 108
- 109 110 111 112
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- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:52

150 min 86/200

Which molecule cannot form intermolecular H-bonding

- A) HF
- B) $\text{CH}_3\text{-NH}_2$
- C) $\text{CH}_3\text{-CHO}$
- D) $\text{CH}_3\text{-OH}$

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

- 81 82 83 84
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FLP-4 (Complete Syllabus)

02:24:51

150 min 87/200

Highest 1st ionization energy is possessed by which configuration

- A) $1s^2, 2s^2, 2p^3$
- B) $1s^2, 2s^2, 2p^6, 3s^2, 3p^3$
- C) $1s^2, 2s^2, 2p^6, 3s^2, 3p^5$
- D) $1s^2, 2s^2$

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:49

150 min 88/200

A divalent cationic species has 2,8,15 electrons. Its nucleon number is 59. Number of electrons and neutrons are

- A) 32, 27
- B) 36, 27
- C) 36, 32
- D) 27, 32

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:48

150 min 89/200

Number of d-electrons in Cu^{+1} that have spin quantum number $-1/2$

- A) 5
- B) 6
- C) 3
- D) 7

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:47

150 min 90/200

Which one has highest pKa value

- A) HCOOH
- B) CH_3COOH
- C) $\text{CH}_3\text{CH}_2\text{COOH}$
- D) $(\text{CH}_3)_2\text{CH-COOH}$

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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- 85 86 87 88
- 89 90 91 92
- 93 94 95 96
- 97 98 99 100
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- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:46

150 min 91/200

Formaldehyde and formic acid are chemically distinguished by

- A) H_2SO_4
- B) NaHCO_3
- C) Conc. HCl + Anhydrous ZnCl_2
- D) $\text{Cu}(\text{OH})_2$ + NaOH + Tartarate ion

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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- 85 86 87 88
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FLP-4 (Complete Syllabus)

02:24:45

150 min 92/200

Which pair can be chemically distinguished by $I_2 + NaOH$

- A) Methanal and propanal
- B) 3-Pentanone and butanone
- C) Acetone and ethanal
- D) Pentanoic acid and 3-pentanone

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:44

150 min 93/200

Acetaldehyde reacts with methyl amine to form

- A) Oxime
- B) Imine
- C) Hydrazone
- D) Acetals

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:43

150 min 94/200

The compound present in the biological preservative formalin is

- A) CH_3OH
- B) HCHO
- C) CH_3CHO
- D) HCOOH

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:42

150 min 95/200

Dehydration product of alcohol is / are

- A) Aldehyde and ketone
- B) Ether and ester
- C) Alkene and ether
- D) Ester and carboxylic acid

A B C D

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:41

150 min 96/200

During hydration of propene, inter-mediate formed is

- A) Ethyl hydrogen sulphate
- B) Iso-propyl hydrogen sulphate
- C) n-propyl hydrogen sulphate
- D) All of these

A B C D

First Prev Next Last Finish

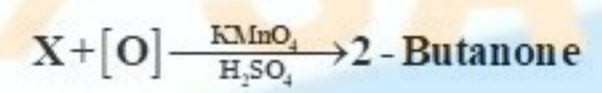
Chemistry

- 81 82 83 84
- 85 86 87 88
- 89 90 91 92
- 93 94 95 96
- 97 98 99 100
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- 117 118 119 120
- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:40

150 min 97/200



What is "X" in above reaction is

- A) Iso-propyl alcohol
- B) 2-Methyl-2-propenol
- C) Iso-Butyl alcohol
- D) 2-Butanol

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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- 85 86 87 88
- 89 90 91 92
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FLP-4 (Complete Syllabus)

02:24:38

150 min 98/200

Tertiary alkyl halide among following is

- A) 2-chloro-3,3-dimethyl butane
- B) 3-chloro-2-methyl pentane
- C) 2-chloro-2-methyl pentane
- D) 2-chloro-3-methylbutane

A B C D

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:36

150 min 99/200

Rate of S_N1 mechanism depends on

- A) Conc. of substrate
- B) Nature of solvent
- C) Stability of carbonium ion
- D) All of these

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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- 85 86 87 88
- 89 90 91 92
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- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:35

150 min 100/200

Correct order of reactivity of alkyl halide is

- A) $R-Cl > R-Br > R-I > R-F$
- B) $R-I > R-Br > R-Cl > R-F$
- C) $R-F > R-Br > R-Cl > R-I$
- D) $R-F > R-Cl > R-Br > R-I$

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:34

150 min 101/200

Which is not ortho, para directing group

- A) $-\text{OCOCH}_3$
- B) $-\text{CH}_3$
- C) $-\text{OR}$
- D) $-\text{CCl}_3$

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

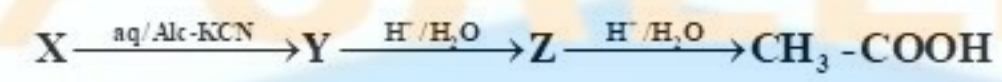
Chemistry

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FLP-4 (Complete Syllabus)

02:24:31

150 min 102/200



"Y" and "Z" in above reaction are

- A) $\text{CH}_3\text{-Cl}$, $\text{CH}_3\text{-CN}$
- B) $\text{CH}_3\text{-Cl}$, CH_3CONH_2
- C) $\text{CH}_3\text{-CN}$, CH_3CONH_2
- D) CH_3CONH_2 , $\text{CH}_3\text{-CN}$

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

- 81 82 83 84
- 85 86 87 88
- 89 90 91 92
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- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:29

150 min 103/200



Product in above reaction is

- A) Acetophenone
- B) Benzophenone
- C) Benzyl chloride
- D) Phenyl ethanone

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:28

150 min 104/200

C - H bond length in benzene is

- A) 1.34 A°
- B) 1.20 A°
- C) 1.09 A°
- D) 1.54 A°

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:27

150 min 105/200

1-Chloro-2,2-dimethylpropane on treatment with caustic potash give

- A) 2-Methyl propene
- B) 2-Methyl-2-butene
- C) 2-Methyl-1-butene
- D) Tertiary alcohol

A B C D

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:26

150 min 106/200

Acetylene on treatment with ammoniacal silver nitrate solution give ____ ppt.

- A) Reddish brown
- B) White
- C) Green
- D) Blue

A B C D

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:25

150 min 107/200

Acidic hydrogen is not present in

- A) $\text{CH}_3\text{-CH}_2\text{-OH}$
- B) $\text{CH}_3\text{-COOH}$
- C) $\text{CH}_2=\text{CH}_2$
- D) $\text{CH}_3\text{-C}\equiv\text{CH}$

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:24

150 min 108/200

Which compound follow markowinkov's rule

- A) Iso-butylene
- B) 1-Butene
- C) 2-Butene
- D) Both "a" and "b"

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

- 81 82 83 84
- 85 86 87 88
- 89 90 91 92
- 93 94 95 96
- 97 98 99 100
- 101 102 103 104
- 105 106 107 108
- 109 110 111 112
- 113 114 115 116
- 117 118 119 120
- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:22

150 min 109/200

Number of isomer of C_4H_8 are

- A) 3
- B) 4
- C) 2
- D) 5

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

- 81
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FLP-4 (Complete Syllabus)

02:24:21

150 min 110/200

In $[\text{CrCl}_2(\text{H}_2\text{O})_4]$ Cl, complex the central metal atom has oxidation state of

- A) 2
- B) 4
- C) 3
- D) 6

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:20

150 min 111/200

In which of following pairs both ions are colored in aq. Solution

- A) Ni^{+2} , Cu^{+1}
- B) Sc^{+3} , Ti^{+3}
- C) Sc^{+3} , Co^{+2}
- D) Ni^{+2} , Ti^{+3}

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

- 81 82 83 84
- 85 86 87 88
- 89 90 91 92
- 93 94 95 96
- 97 98 99 100
- 101 102 103 104
- 105 106 107 108
- 109 110 111 112
- 113 114 115 116
- 117 118 119 120
- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:19

150 min 112/200

Which one will have least value of binding energy

- A) Mn
- B) Ni
- C) V
- D) Sc

A B C D

First Prev Next Last Finish

Chemistry

- 81 82 83 84
- 85 86 87 88
- 89 90 91 92
- 93 94 95 96
- 97 98 99 100
- 101 102 103 104
- 105 106 107 108
- 109 110 111 112
- 113 114 115 116
- 117 118 119 120
- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:18

150 min 113/200

pH of 0.05 M CH_3COONa with 0.5 M CH_3COOH is _____ if $\text{pK}_a = 4.74$

- A) 1
- B) 3.74
- C) 4.74
- D) 5.74

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:24:17

150 min 114/200

Ksp value of $4s^3$ is shown by following

- A) $AgCl, PbCl_2$
- B) $Ca(OH)_2, CaF_2$
- C) $Fe(OH)_3, Ag_2S$
- D) $CaCO_3, Cu_2S$

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

- 81 82 83 84
- 85 86 87 88
- 89 90 91 92
- 93 94 95 96
- 97 98 99 100
- 101 102 103 104
- 105 106 107 108
- 109 110 111 112
- 113 114 115 116
- 117 118 119 120
- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:16

150 min 115/200

For reversible reaction, which Kc value indicate that the forward reaction will be least favourable

- A) 10^{-2}
- B) 10^{-13}
- C) 10^1
- D) 10^5

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

- 81 82 83 84
- 85 86 87 88
- 89 90 91 92
- 93 94 95 96
- 97 98 99 100
- 101 102 103 104
- 105 106 107 108
- 109 110 111 112
- 113 114 115 116
- 117 118 119 120
- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:14

150 min 116/200

For Haber's process, correct statement is

- A) K_c decreases with rise in temperature
- B) Yield of reaction decreases with rise temperature
- C) Rate increases with rise in temperature
- D) All are correct

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

- 81 82 83 84
- 85 86 87 88
- 89 90 91 92
- 93 94 95 96
- 97 98 99 100
- 101 102 103 104
- 105 106 107 108
- 109 110 111 112
- 113 114 115 116
- 117 118 119 120
- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:11

150 min 117/200

Rate of reaction become double when concentration of reactant increases 4 times, order of reaction is

- A) $\frac{1}{2}$
- B) $\frac{1}{4}$
- C) $-\frac{1}{2}$
- D) 2

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

- 81 82 83 84
- 85 86 87 88
- 89 90 91 92
- 93 94 95 96
- 97 98 99 100
- 101 102 103 104
- 105 106 107 108
- 109 110 111 112
- 113 114 115 116
- 117 118 119 120
- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:10

150 min 118/200

If $(t_{1/2})$ of a certain reaction is directly proportional to initial con. Order of reaction is

- A) Zero
- B) One
- C) Two
- D) Three

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

- 81 82 83 84
- 85 86 87 88
- 89 90 91 92
- 93 94 95 96
- 97 98 99 100
- 101 102 103 104
- 105 106 107 108
- 109 110 111 112
- 113 114 115 116
- 117 118 119 120
- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:08

150 min 119/200

Order of E° reduction is
 $W > X > Y > Z$, incorrect statement is

- A) Z can easily evolve H_2 gas from dilute acid
- B) W can be easily oxidized
- C) $X+2$ can be reduced by Y
- D) X / Y form voltaic cell

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

- 81 82 83 84
- 85 86 87 88
- 89 90 91 92
- 93 94 95 96
- 97 98 99 100
- 101 102 103 104
- 105 106 107 108
- 109 110 111 112
- 113 114 115 116
- 117 118 119 120
- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:05

150 min 120/200

Value of E° reduction depend on

- A) Change in temperature
- B) Concentration of ion
- C) Pressure
- D) All of these

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

- 81 82 83 84
- 85 86 87 88
- 89 90 91 92
- 93 94 95 96
- 97 98 99 100
- 101 102 103 104
- 105 106 107 108
- 109 110 111 112
- 113 114 115 116
- 117 118 119 120
- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:03

150 min 121/200

In sodium tetrathionate ($\text{Na}_2\text{S}_4\text{O}_6$) oxidation state of "S" is

- A) 2
- B) 2.5
- C) 3
- D) 4

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

Chemistry

- 81 82 83 84
- 85 86 87 88
- 89 90 91 92
- 93 94 95 96
- 97 98 99 100
- 101 102 103 104
- 105 106 107 108
- 109 110 111 112
- 113 114 115 116
- 117 118 119 120
- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:01

150 min 122/200

Increase in internal energy of system is 100J if it absorb 300J of heat how much work is done by system.

- A) 200J
- B) -200J
- C) 400J
- D) -400J

A B C D

First Prev Next Last Finish

Chemistry

- 81 82 83 84
- 85 86 87 88
- 89 90 91 92
- 93 94 95 96
- 97 98 99 100
- 101 102 103 104
- 105 106 107 108
- 109 110 111 112
- 113 114 115 116
- 117 118 119 120
- 121 122 123 124

FLP-4 (Complete Syllabus)

02:24:00

150 min 123/200

Heat of reaction at constant pressure is called

- A) State function
- B) Enthalpy change
- C) Path function
- D) Internal energy change

A B C D

First Prev Next Last Finish

Chemistry

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FLP-4 (Complete Syllabus)

02:23:59

150 min 124/200

Lowest ΔH_n is for

- A) HCl / NaOH
- B) H_3PO_4 / $Ba(OH)_2$
- C) HF / KOH
- D) CH_3COOH / NH_4OH

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

125 126 127 128

129 130 131 132

133 134 135 136

137 138 139 140

Physics

141 142 143 144

145 146 147 148

149 150 151 152

153 154 155 156

157 158 159 160

161 162 163 164

165 166 167 168

FLP-4 (Complete Syllabus)

02:23:53

150 min 125/200

Bond having highest bond energy

- A) F - F
- B) C - C
- C) H - H
- D) N - N

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

- 125 126 127 128
- 129 130 131 132
- 133 134 135 136
- 137 138 139 140

Physics

- 141 142 143 144
- 145 146 147 148
- 149 150 151 152
- 153 154 155 156
- 157 158 159 160
- 161 162 163 164
- 165 166 167 168

FLP-4 (Complete Syllabus)

02:23:52

150 min 126/200

Which have different geometry than others

- A) NF_3
- B) H_3O^+
- C) NH_3
- D) AlCl_3

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

125 126 127 128

129 130 131 132

133 134 135 136

137 138 139 140

Physics

141 142 143 144

145 146 147 148

149 150 151 152

153 154 155 156

157 158 159 160

161 162 163 164

165 166 167 168

FLP-4 (Complete Syllabus)

02:23:51

150 min 127/200

Which one has highest lattice energy

A) MgO

B) CaO

C) Na₂O

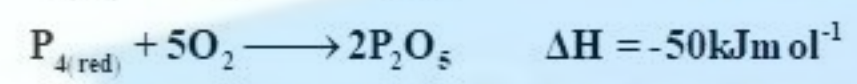
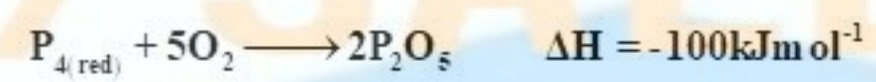
D) K₂O

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

- 125 126 127 128
- 129 130 131 132
- 133 134 135 136
- 137 138 139 140
- Physics
- 141 142 143 144
- 145 146 147 148
- 149 150 151 152
- 153 154 155 156
- 157 158 159 160
- 161 162 163 164
- 165 166 167 168

FLP-4 (Complete Syllabus) 02:23:50 150 min 128/200



Above mentioned reaction have hypothetical values of heat change during the reaction. Calculate amount of heat required to convert white phosphorous to red phosphorus.

- A) -50 kJ mol^{-1}
- B) $+50 \text{ kJ mol}^{-1}$
- C) $+100 \text{ kJ mol}^{-1}$
- D) -150 kJ mol^{-1}

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

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129 130 131 132

133 134 135 136

137 138 139 140

Physics

141 142 143 144

145 146 147 148

149 150 151 152

153 154 155 156

157 158 159 160

161 162 163 164

165 166 167 168

FLP-4 (Complete Syllabus)

02:23:49

150 min 129/200

Pair of amphoteric oxide in nature

A) $\text{BeO}, \text{Al}_2\text{O}_3$

B) $\text{BeO}, \text{Li}_2\text{O}$

C) $\text{MgO}, \text{Al}_2\text{O}_3$

D) $\text{Na}_2\text{O}, \text{Na}_2\text{O}_2$

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

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- 129 130 131 132
- 133 134 135 136
- 137 138 139 140
- Physics
- 141 142 143 144
- 145 146 147 148
- 149 150 151 152
- 153 154 155 156
- 157 158 159 160
- 161 162 163 164
- 165 166 167 168

FLP-4 (Complete Syllabus)

02:23:48

150 min 130/200

Dissolved oxygen present in water is used by fishes for breathing purposes. Which of the following force of attraction is responsible for dissolved oxygen in water is

- A) Dipole - dipole force
- B) Debye's force
- C) London dispersion force
- D) Hydrogen bonding

A B C D

First Prev Next Last Finish

125 126 127 128

129 130 131 132

133 134 135 136

137 138 139 140

Physics

141 142 143 144

145 146 147 148

149 150 151 152

153 154 155 156

157 158 159 160

161 162 163 164

165 166 167 168

Molten sodium burns with ____ flame in chlorine atmosphere

A) Brick red

B) Brilliant yellow

C) Pale yellow

D) Bluish

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

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- 129 130 131 132
- 133 134 135 136
- 137 138 139 140

Physics

- 141 142 143 144
- 145 146 147 148
- 149 150 151 152
- 153 154 155 156
- 157 158 159 160
- 161 162 163 164
- 165 166 167 168

FLP-4 (Complete Syllabus)

02:23:45

150 min 132/200

Which alkaline earth metal is completely oxidized at 800°C

- A) Be
- B) Mg
- C) Ca
- D) Sr

A B C D

First Prev Next Last Finish

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129 130 131 132

133 134 135 136

137 138 139 140

Physics

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145 146 147 148

149 150 151 152

153 154 155 156

157 158 159 160

161 162 163 164

165 166 167 168

Which oxide show most acidic character

A) SO_3

B) SiO_2

C) P_2O_5

D) Cl_2O_7

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

- 125 126 127 128
- 129 130 131 132
- 133 134 135 136
- 137 138 139 140

Physics

- 141 142 143 144
- 145 146 147 148
- 149 150 151 152
- 153 154 155 156
- 157 158 159 160
- 161 162 163 164
- 165 166 167 168

FLP-4 (Complete Syllabus)

02:23:42

150 min 134/200

Largest ionic radius for hypothetical species is

- A) C^{-4}
- B) P^{-3}
- C) S^{-2}
- D) Cl^{-1}

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

- 125 126 127 128
- 129 130 131 132
- 133 134 135 136
- 137 138 139 140

Physics

- 141 142 143 144
- 145 146 147 148
- 149 150 151 152
- 153 154 155 156
- 157 158 159 160
- 161 162 163 164
- 165 166 167 168

FLP-4 (Complete Syllabus)

02:23:41

150 min 135/200

Which is possible redox reaction

- A) $\text{Cl}_2 + 2\text{Br}^{-1} \longrightarrow \text{Br}_2 + 2\text{Cl}^{-1}$
- B) $\text{Br}_2 + 2\text{Cl}^{-1} \longrightarrow \text{Cl}_2 + 2\text{Br}^{-1}$
- C) $\text{Cl}_2 + 2\text{F}^{-1} \longrightarrow \text{F}_2 + 2\text{Cl}^{-1}$
- D) $\text{Br}_2 + 2\text{F}^{-1} \longrightarrow \text{F}_2 + 2\text{Br}^{-1}$

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

- 125 126 127 128
- 129 130 131 132
- 133 134 135 136
- 137 138 139 140

Physics

- 141 142 143 144
- 145 146 147 148
- 149 150 151 152
- 153 154 155 156
- 157 158 159 160
- 161 162 163 164
- 165 166 167 168

FLP-4 (Complete Syllabus)

02:23:40

150 min 136/200

In the following rection 'M' represents the metal



- A) Be
- B) Mg
- C) Ca
- D) Ba

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

125 126 127 128

129 130 131 132

133 134 135 136

137 138 139 140

Physics

141 142 143 144

145 146 147 148

149 150 151 152

153 154 155 156

157 158 159 160

161 162 163 164

165 166 167 168

The planar molecule is

- A) Methanal
- B) Ethanal
- C) Acetone
- D) All of these

A ☐ B ☐ C ☐ D ☐

- 125 126 127 128
- 129 130 131 132
- 133 134 135 136
- 137 138 139 140

Physics

- 141 142 143 144
- 145 146 147 148
- 149 150 151 152
- 153 154 155 156
- 157 158 159 160
- 161 162 163 164
- 165 166 167 168

FLP-4 (Complete Syllabus)

02:23:37

150 min 138/200

Which of the following pair of molecules have different hybridization but same shape

- A) BF_3, SO_3
- B) NH_3, BF_3
- C) $\text{H}_2\text{O}, \text{BeCl}_2$
- D) $\text{H}_2\text{O}, \text{SnCl}_2$

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

125 126 127 128

129 130 131 132

133 134 135 136

137 138 139 140

Physics

141 142 143 144

145 146 147 148

149 150 151 152

153 154 155 156

157 158 159 160

161 162 163 164

165 166 167 168

Proteins are classified into following major classes

A) Simple proteins

B) Conjugated proteins

C) Derived proteins

D) All of these

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

- 125 126 127 128
129 130 131 132
133 134 135 136
137 138 139 140
Physics
141 142 143 144
145 146 147 148
149 150 151 152
153 154 155 156
157 158 159 160
161 162 163 164
165 166 167 168

FLP-4 (Complete Syllabus) 02:23:35 150 min 140/200

In which of the following compound coordinate covalent character is maximum

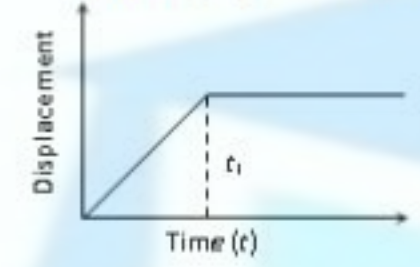
- A) H_3O^+
B) NH_4^+
C) BH_4^-
D) BF_4^-

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

- 125 126 127 128
- 129 130 131 132
- 133 134 135 136
- 137 138 139 140
- Physics
- 141 142 143 144
- 145 146 147 148
- 149 150 151 152
- 153 154 155 156
- 157 158 159 160
- 161 162 163 164
- 165 166 167 168

The $x-t$ graph shown in figure represents



- A) Constant velocity
- B) Velocity of the body is continuously changing
- C) Instantaneous velocity
- D) The body travels with constant speed upto time t_1 and then stops

A ☐ B ☐ C ☐ D ☐

- 125 126 127 128
- 129 130 131 132
- 133 134 135 136
- 137 138 139 140

Physics

- 141 142 143 144
- 145 146 147 148
- 149 150 151 152
- 153 154 155 156
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- 161 162 163 164
- 165 166 167 168

FLP-4 (Complete Syllabus)

02:23:16

150 min 142/200

Two projectiles are projected at angle of 20° and 70° with same velocity which one have longer range

- A) Which is fired at 20°
- B) Both have same range
- C) Which is fired at 70°
- D) none of these

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

125 126 127 128

129 130 131 132

133 134 135 136

137 138 139 140

Physics

141 142 143 144

145 146 147 148

149 150 151 152

153 154 155 156

157 158 159 160

161 162 163 164

165 166 167 168

The retardation is defined as

A) increase in velocity per unit time

B) decrease in velocity per unit time

C) decrease in speed per unit time

D) increase in speed per unit time

A ☐ B ☐ C ☐ D ☐

- 125 126 127 128
- 129 130 131 132
- 133 134 135 136
- 137 138 139 140

Physics

- 141 142 143 144
- 145 146 147 148
- 149 150 151 152
- 153 154 155 156
- 157 158 159 160
- 161 162 163 164
- 165 166 167 168

FLP-4 (Complete Syllabus) 02:23:04 150 min 144/200

Two equal masses travel towards each other on a frictionless air track at speeds of 60 cm s^{-1} and 30 cm s^{-1} . They stick together on impact.



What is the speed of the masses after impact?

- A) 15 cm s^{-1}
- B) 30 cm s^{-1}
- C) 20 cm s^{-1}
- D) 45 cm s^{-1}

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

125 126 127 128

129 130 131 132

133 134 135 136

137 138 139 140

Physics

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149 150 151 152

153 154 155 156

157 158 159 160

161 162 163 164

165 166 167 168

FLP-4 (Complete Syllabus) 02:23:02 150 min 145/200

A man pushes a wall with 50 (N) and it displaces it zero (m), his work is

- A) Negative
- B) no work
- C) Positive
- D) may all possible

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

125 126 127 128

129 130 131 132

133 134 135 136

137 138 139 140

Physics

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145 146 147 148

149 150 151 152

153 154 155 156

157 158 159 160

161 162 163 164

165 166 167 168

The same retarding force is applied to stop a train. The train stops after 80 m. If the speed is doubled, then the distance will be

A) The same

B) Doubled

C) Halved

D) Four times

A ☐

B ☐

C ☐

D ☐

First ⏮

Prev ⏪

Next ⏩

Last ⏭

Finish 🏁

125 126 127 128

129 130 131 132

133 134 135 136

137 138 139 140

Physics

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145 146 147 148

149 150 151 152

153 154 155 156

157 158 159 160

161 162 163 164

165 166 167 168

FLP-4 (Complete Syllabus)

02:23:00

150 min 147/200

If the speed becomes doubled. The K.E will be

A) Doubled

B) Remains same

C) Half

D) Four times

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

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- 129 130 131 132
- 133 134 135 136
- 137 138 139 140
- Physics
- 141 142 143 144
- 145 146 147 148
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- 157 158 159 160
- 161 162 163 164
- 165 166 167 168

FLP-4 (Complete Syllabus) 02:22:59 150 min 148/200

To travel at a constant speed, a car engine provides 24 kW of useful power. The driving force on the car is 600 N. At what speed does it travel?

- A) $25ms^{-1}$
- B) $2.5ms^{-1}$
- C) $4.0ms^{-1}$
- D) $40ms^{-1}$

A B C D

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For a particle in uniform circular motion the relation $a = r\alpha$ of accelerations hold. The acceleration 'a'

- A) Is centripetal acceleration
- B) Is tangential acceleration
- C) Is radial acceleration
- D) both a and b

A ☐ B ☐ C ☐ D ☐

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If a body is moving in a circular path with constant speed, then the

- A) Velocity and acceleration are perpendicular to each other
- B) Velocity and acceleration are anti-parallel
- C) Velocity and acceleration are parallel to each other
- D) Both have zero magnitude

A ☐

B ☐

C ☐

D ☐

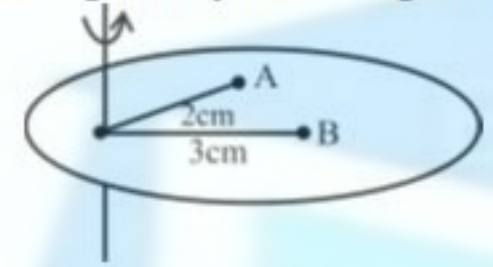
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FLP-4 (Complete Syllabus) 02:22:55 150 min 151/200

A rigid body is rotating about on axis of rotation as shown.



The ratio of angular accelerations of point A to that of B.

- A) 1 : 1
- B) 3 : 2
- C) 2 : 3
- D) 1 : 6

A ☐ B ☐ C ☐ D ☐

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2 πr subtends an angle of

A) 1 radian

B) 4 radian

C) 2 radian

D) 2π rad

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

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FLP-4 (Complete Syllabus)

02:22:52

150 min 153/200

If a Radar system designed in accordance with the Doppler's effect, if an airplane is moving away from a Radar, the wavelength of the reflected wave from the air plane would be:

A) Smaller than the transmitting wave

B) Same as that of the transmitting wave

C) Larger than the transmitting wave

D) Either smaller or larger than the transmitting wave

A ☐

B ☐

C ☐

D ☐

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FLP-4 (Complete Syllabus)

02:22:51

150 min 154/200

The frequency of the first harmonic of a string stretched between two points is 100 Hz. The frequency of the third overtone is

A) 200 Hz

B) 400 Hz

C) 300 Hz

D) 600 Hz

A ☐ B ☐ C ☐ D ☐

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"Stationary waves" are so called because in them

- A) the particles of the medium are not disturbed
- B) there occurs no flow of energy along the wave
- C) the particles of the medium do not execute SHM
- D) the interference effect can't be observed

A ☐ B ☐ C ☐ D ☐

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A tuning fork completes 20 vibrations in 0.4 s. its frequency in (s^{-1})

A) 50

B) 60

C) 100

D) none of these

A ☐ B ☐ C ☐ D ☐

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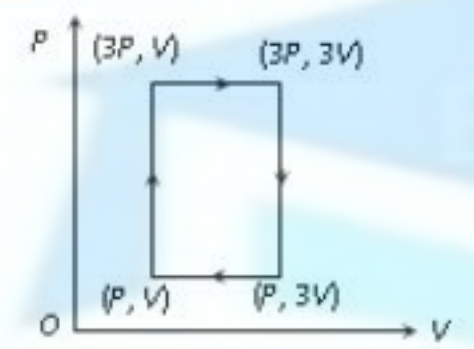
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FLP-4 (Complete Syllabus)

02:22:44

150 min 157/200

An ideal monoatomic gas is taken round the cycle ABCDA as shown in following P - V diagram. The work done during the cycle is



- A) PV
- B) $2 PV$
- C) $4 PV$
- D) Zero

A ☐ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

02:22:42

150 min 158/200

If 150 J of heat is added to a system and the work done by the system is 110 J, then change in internal energy will be

- A) 260 J
- B) 150 J
- C) 110 J
- D) 40 J

A ☐ B ☐ C ☐ D ☐

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Farad is not equivalent to

- A) $\frac{\text{coulomb}}{\text{Volt}}$
- B) $\frac{\text{Joule}}{(\text{Volt})^2}$
- C) $\frac{(\text{coulomb})^2}{\text{Joule}}$
- D) $\frac{\text{Volt}}{\text{coulomb}}$

A ☐ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus) 02:22:40 150 min 160/200

If an insulating material called dielectric is introduced between the plates, the capacitance of capacitor is:

- A) $\frac{A\epsilon_0\epsilon_r}{2d}$
- B) $\frac{A\epsilon_0\epsilon_r}{d}$
- C) $\frac{Ad}{\epsilon_0\epsilon_r}$
- D) $\frac{2Ad\epsilon_0\epsilon_r}{d}$

A ☐ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

02:22:38

150 min 161/200

Neutral zone in electric field of two similar charges is region where

- A) Both positive and negative charges are present
- B) An electric dipole exists
- C) Equal quantity of both positive and negative charges are present
- D) No electric field line passes

A B C D

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FLP-4 (Complete Syllabus)

02:22:37

150 min 162/200

The electric potential at the surface of an atomic nucleus ($Z = 50$) of radius 9.0×10^{-15} m is

- A) 9V
- B) 8×10^6 V
- C) 9×10^5 V
- D) 80 V

A ☐ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

02:22:35

150 min 163/200

A total charge of 100 C flows through a 12W light bulb in a time of 50s. What is the potential difference across the bulb during this time?

A) 0.12V

B) 6.0V

C) 2.0V

D) 24V

A ☐ B ☐ C ☐ D ☐

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The electrical resistance of metals

- A) Increases with an increase in temperature
- B) Is independent of temperature
- C) Decrease with an increase in temperature
- D) Sometimes increases sometimes decreases with temperature

A ☐ B ☐ C ☐ D ☐

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Which one of the following bulbs has the least resistance?

A) 100 watt

B) 200 watt

C) 300 watt

D) 60 watt

A ☐ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

02:22:27

150 min 166/200

Wheat stone bridge is an arrangement consisting of

- A) 2 resistances
- B) 3 resistances
- C) 4 resistances
- D) 5 resistances

A B C D

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The radius of curvature of the path of the charged particle in a uniform magnetic field is directly proportional to

- A) the energy of the particle
- B) the intensity of the field
- C) the momentum of the particle
- D) the charge on the particle

A ☐ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus) 02:22:25 150 min 168/200

A charge of 1C is moving in a magnetic field of 0.5Tesla with a velocity of 10m/sec Perpendicular to the field. Force experienced is

- A) 5 N
- B) 10N
- C) 0.5 N
- D) 0N

A B C D

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FLP-4 (Complete Syllabus)

02:21:53

150 min 169/200

The north pole of a magnet is brought near a metallic ring. The direction of the induced current in the ring will be

- A) clockwise
- B) anticlockwise
- C) towards north
- D) towards south

A ☐ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus) 02:21:52 150 min 170/200

A loss free transformer has 500 turns on its primary winding and 2500 in secondary. The meters of the secondary indicate 200 volts at 8 amperes under these conditions. The voltage and current in the primary is

- A) 100 V, 16 A
- B) 160 V, 10 A
- C) 40 V, 40 A
- D) 80 V, 20 A

A B C D

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FLP-4 (Complete Syllabus) 02:21:51 150 min 171/200

In a transformer 220 ac voltage is increased to 2200 volts. If the number of turns in the secondary are 2000, then the number of turns in the primary will be.

- A) 100
- B) 150
- C) 200
- D) 20

A B C D

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FLP-4 (Complete Syllabus)

02:21:49

150 min 172/200

The armature of a generator consist of a flat square coil of side 4 cm and 200 turns. The coil rotates in a magnetic field of 0.75T. The angular speed so that a maximum emf of 1.6V is generated is __

- A) $\frac{20}{3} rads^{-1}$
- B) $\frac{20}{3} rotations / s$
- C) $\frac{20}{3} rpm$
- D) None

A B C D

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English

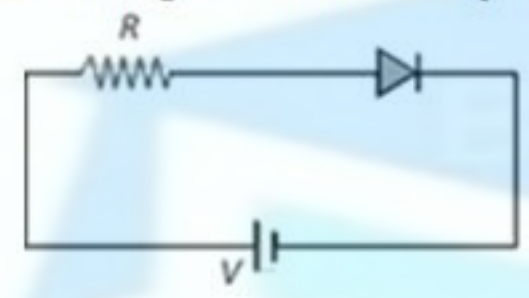
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FLP-4 (Complete Syllabus)

02:21:46

150 min 173/200

For the given circuit of PN-junction diode, which of the following statement is correct?



- A) in forward biasing the voltage across R is 2V
- B) in forward biasing the voltage across R is V
- C) in reverse biasing the voltage across R is V
- D) in reverse biasing the voltage across R is 2V

A B C D

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FLP-4 (Complete Syllabus)

02:21:45

150 min 174/200

During negative half cycle of A.C then p-n junction offers

- A) high resistance
- B) low resistance
- C) no resistance
- D) all of these

A B C D

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FLP-4 (Complete Syllabus)

02:21:44

150 min 175/200

Modern versions of electron microscope which produces three dimensioned image of the objects called

- A) Modern electron microscope
- B) Three-dimensional electron microscope
- C) High-power three-dimensional electron microscope
- D) Scanning electron microscope

A B C D

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FLP-4 (Complete Syllabus) 02:21:43 150 min 176/200

De Broglie wave length associated with an electron at a speed of $1 \times 10^6 \text{ ms}^{-1}$

- A) $7 \times 10^{-10} \text{ m}$
- B) $6 \times 10^{-10} \text{ m}$
- C) $5 \times 10^{-10} \text{ m}$
- D) $4 \times 10^{-10} \text{ m}$

A B C D

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FLP-4 (Complete Syllabus)

02:21:42

150 min 177/200

Which series is emitted when electron jumps from a higher orbit to fifth orbit?

- A) Lyman
- B) Balmer
- C) Pfund
- D) Brackett

A B C D

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FLP-4 (Complete Syllabus)

02:21:41

150 min 178/200

Which of the following is not true about radioactivity?

- A) Is a nuclear phenomenon
- B) Is not altered by any physical change
- C) Is not altered by any chemical change
- D) Is a property relating to outside the nucleus

A B C D

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FLP-4 (Complete Syllabus)

02:21:40

150 min 179/200

The emission of β -particle from Polonium -218, results in the formation of

- A) Astatine -218
- B) Lead -218
- C) Thorium -218
- D) Protactinium -218

A B C D

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FLP-4 (Complete Syllabus) 02:21:39 150 min 180/200

The half-life of protactinium

- A) 6.6 Hrs
- B) 24 Hrs
- C) 6 days
- D) weeks

A B C D

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FLP-4 (Complete Syllabus) 02:21:37 150 min 181/200

Spot the error: In the following sentences some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains the mistake that needs to be corrected.

In the context of the affinity of hemoglobin for oxygen, there are four primary regulators, each of which have a negative impact.

- A) for
- B) are
- C) which
- D) have

A B C D

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FLP-4 (Complete Syllabus) 02:21:36 150 min 182/200

Spot the error: In the following sentences some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains the mistake that needs to be corrected.

Not only did they break into the house and stole his books, but they also tore up his manuscripts.

- A) break
- B) stole
- C) tore
- D) manuscripts

A B C D

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FLP-4 (Complete Syllabus)

02:21:35

HH

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📉 150 min

📊 183/200

Spot the error: In the following sentences some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains the mistake that needs to be corrected.

Mustafa Kamal was having a good use of the freedom which the absence of the talkers had given him.

- A) having
- B) which
- C) absence
- D) talkers

A

☐

B

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C

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D

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FLP-4 (Complete Syllabus) 02:21:34 150 min 184/200

Spot the error: In the following sentences some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains the mistake that needs to be corrected.
A few people find jobs a couple of months every year the North or South, come back half dead of homesickness and live on next to nothing the rest of the year.

- A) find
- B) months
- C) the
- D) dead

A B C D

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FLP-4 (Complete Syllabus)

02:21:33

📉 150 min

📊 185/200

Spot the error: In the following sentences some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains the mistake that needs to be corrected.

His handicap can be attributed with the fact that he is born by an undernourished mother.

- A) with
- B) that
- C) born
- D) undernourished

A ☐

B ☐

C ☐

D ☐

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FLP-4 (Complete Syllabus)

02:21:32

150 min 186/200

Choose the correct Active Voice of the given sentence.
He will be greatly surprised if he is chosen. Choose the correct Active Voice.

- A) He will greatly surprise if they choose him.
- B) It will greatly surprise him if he is chosen.
- C) It will greatly surprise him if they choose him.
- D) He will greatly surprise him if they have chosen him.

A B C D

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FLP-4 (Complete Syllabus)

02:21:31

150 min 187/200

Choose the correct Active Voice of the given sentence.

When the sun got low, the king's son said, "Jack, since we have now money, where can we lodge this night?"

- A) When the sun got low, the king's son asked to Jack where could they lodge that night, since they had no money.
- B) When the sun got low, the king's son asked Jack where they could lodge that night, since they had no money.
- C) When the sun got low, the king's son asked Jack if where they lodged that night, since they had no money.
- D) When the sun got low, the king's son asked to Jack where could they lodge that night, since they have no money.

A B C D

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FLP-4 (Complete Syllabus)

02:21:30

150 min 188/200

In each of the following questions, four alternative sentences are given. Choose the **CORRECT** one.

- A) "Man is mortal," said the old wise man.
- B) "A man is mortal," said the old wise man.
- C) "The Man is mortal", said old wise man..
- D) "Man is a mortal," said the old wise man.

A ☐ B ☐ C ☐ D ☐

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- 173 174 175 176
- 177 178 179 180
- English
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- 185 186 187 188
- 189 190 191 192
- 193 194 195 196
- 197 198 199 200

FLP-4 (Complete Syllabus) 02:21:29 150 min 189/200

In each of the following questions, four alternative sentences are given. Choose the **CORRECT** one.

- A) I would rather they do something about it instead of just to talk about it.
- B) I would rather they did something about it instead of just to talk about it.
- C) I would rather they should do something about it instead of just talking about it.
- D) I would rather they did something about it instead of just talking about it.

A B C D

First Prev Next Last Finish

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English

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FLP-4 (Complete Syllabus) 02:21:28 150 min 190/200

In each of the following questions, four alternative sentences are given. Choose the **CORRECT** one.

- A) When God calls Himself All Hearing, it checks a person by using foul language.
- B) When God calls Himself All Hearing, it checks a person of using foul language.
- C) When God calls Himself All Hearing, it checks a person in using foul language.
- D) When God calls Himself All Hearing, it checks a person from using foul language.

A B C D

First Prev Next Last Finish

- 161 162 163 164
- 165 166 167 168
- 169 170 171 172
- 173 174 175 176
- 177 178 179 180
- English
- 181 182 183 184
- 185 186 187 188
- 189 190 191 192
- 193 194 195 196
- 197 198 199 200

FLP-4 (Complete Syllabus) 02:21:27 150 min 191/200

Identify the type of sentence.
The office to which I was directed was shut for lunch. Identify of Sentence.

- A) Simple
- B) Compound
- C) Complex
- D) Compound Complex

A B C D

First Prev Next Last Finish

- 161 162 163 164
- 165 166 167 168
- 169 170 171 172
- 173 174 175 176
- 177 178 179 180
- English
- 181 182 183 184
- 185 186 187 188
- 189 190 191 192
- 193 194 195 196
- 197 198 199 200

FLP-4 (Complete Syllabus) 02:21:26 150 min 192/200

Choose the correct answer:
Mum used to make my sisters the most wonderful clothes. Name the Function of the underlined phrase.

- A) Complement
- B) Predicate
- C) Noun Phrase
- D) Indirect object

A B C D

First Prev Next Last Finish

- 161 162 163 164
- 165 166 167 168
- 169 170 171 172
- 173 174 175 176
- 177 178 179 180
- English
- 181 182 183 184
- 185 186 187 188
- 189 190 191 192
- 193 194 195 196
- 197 198 199 200

FLP-4 (Complete Syllabus) 02:21:25 150 min 193/200

Choose the correct answer:
People whose names begin with A have a lot of advantages. Name the Underlined Clause.

- A) Non-restrictive Clause
- B) Adverb Claus
- C) Restrictive Clause
- D) Noun Clause

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

- 161 162 163 164
- 165 166 167 168
- 169 170 171 172
- 173 174 175 176
- 177 178 179 180
- English
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- 185 186 187 188
- 189 190 191 192
- 193 194 195 196
- 197 198 199 200

FLP-4 (Complete Syllabus) 02:21:24 150 min 194/200

Identify the Part of Speech of the underlined word.
I know the reason why he did it. Identify the Part of Speech of the underlined Word.

- A) Conjunction
- B) Relative Pronoun
- C) Relative Adverb
- D) Interrogative Adverb

A B C D

First Prev Next Last Finish

- 161 162 163 164
- 165 166 167 168
- 169 170 171 172
- 173 174 175 176
- 177 178 179 180
- English
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- 185 186 187 188
- 189 190 191 192
- 193 194 195 196
- 197 198 199 200

FLP-4 (Complete Syllabus) 02:21:22 150 min 195/200

Choose the best word(s) to complete each sentence.
To generate income, magazine publishers must decide whether to increase the subscription price or _____.

- A) to sell advertising
- B) if they should sell advertising
- C) selling advertising
- D) sold advertising

A B C D

First Prev Next Last Finish

- 161 162 163 164
- 165 166 167 168
- 169 170 171 172
- 173 174 175 176
- 177 178 179 180
- English
- 181 182 183 184
- 185 186 187 188
- 189 190 191 192
- 193 194 195 196
- 197 198 199 200

FLP-4 (Complete Syllabus) 02:21:21 150 min 196/200

Choose the best word(s) to complete each sentence.
Since I do not know a great deal about the subject, I will _____ this question to my well-informed colleague.

- A) urge
- B) yield
- C) venture
- D) appraise

A B C D

First Prev Next Last Finish

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English

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FLP-4 (Complete Syllabus)

02:21:20

HH

MM

SS

📉

150 min

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197/200

Choose the word that is most nearly **SIMILAR** in meaning to the word in capital letters.

QUENCH

- A) ignite
- B) slake
- C) stoke
- D) kindle

A

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B

☐

C

☐

D

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Finish

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- English
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- 189 190 191 192
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- 197 198 199 200

FLP-4 (Complete Syllabus) 02:21:19 150 min 198/200

Choose the word that is most nearly **SIMILAR** in meaning to the word in capital letters.
REVOLVING

- A) torpid
- B) immutable
- C) inert
- D) pivoting

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

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- 165 166 167 168
- 169 170 171 172
- 173 174 175 176
- 177 178 179 180
- English
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- 197 198 199 200

FLP-4 (Complete Syllabus) 02:21:18 150 min 199/200

Choose the word **OPPOSITE** in meaning to **CAPITALIZED** word given above.
TENTATIVELY

- A) wantonly
- B) sheepishly
- C) hesitantly
- D) intrepidly

A ☐ B ☐ C ☐ D ☐

First Prev Next Last Finish

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- 165 166 167 168
- 169 170 171 172
- 173 174 175 176
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- English
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FLP-4 (Complete Syllabus) 02:21:17 150 min 200/200

Choose the word **OPPOSITE** in meaning to **CAPITALIZED** word given above.
ENCOURAGED

- A) Fortified
- B) Holistic
- C) Pessimistic
- D) Undaunted

A ☐ B ☐ C ☐ D ☐

First Prev Last Finish

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Damage to which one of the following immediately kills the cell whether it is prokaryotic or eukaryotic:

- A) Mitochondria
- B) Cell wall
- C) Cell membrane
- D) Golgi apparatus

A B C D

Back First Prev Next Last

Biology

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5 6 7 8

9 10 11 12

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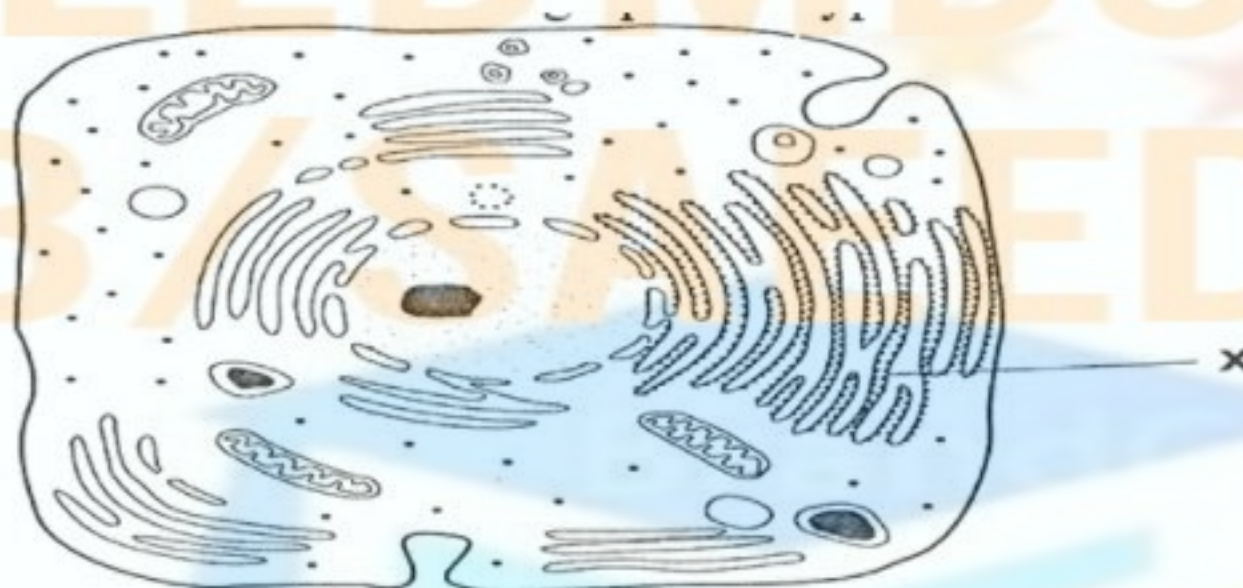
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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The diagram shows an electron micrograph of a typical animal cell:



What is the function of the membrane structure labeled 'X'?

- A) Lipid synthesis
- B) Lipid synthesis and transport
- C) Protein synthesis
- D) Protein synthesis and transport

A ☐ B ☐ C ☐ D ☒

Back ↩

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Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Identify the correct option with respect to chemical composition of cell membrane:

- A) Proteins 60-80% Lipids 20-40% Carbohydrates Small quantity
- B) Proteins 20-40% Lipids 60-80% Carbohydrates Small quantity
- C) Proteins Small quantity Lipids 20-40% Carbohydrates 60-80%
- D) Proteins 60-80% Lipids Small quantity Carbohydrates 20-40%

A ☒

B ☐

C ☐

D ☐

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Functionally, mesosomes can be compared with:

- A) Ribosomes
- B) Mitochondria
- C) Polysomes
- D) Golgi bodies

A ☐ B ☒ C ☐ D ☐

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Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Pick the correct answer with respect to the following reaction:
Carbohydrate + Protein → Glycoprotein

- A) Lysosome
- B) Mitochondria
- C) Smooth endoplasmic reticulum
- D) Golgi apparatus

A B C D

Back First Prev Next Last

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Endoplasmic reticulum contains a system of flattened membrane bounded sacs which are named as:

- A) Cristae
- B) Marks
- C) Cisternae
- D) Tubules

A B C D

Back First Prev Next Last

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

It is the most abundant biological molecule found in protoplasm:

- A) Proteins
- B) Carbohydrates
- C) Water
- D) Lipids

A ☐ B ☐ C ☒ D ☐

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

_____are the major sites for the storage of glycogen in animal's body.

- A) Muscles and liver
- B) Around thighs and belly
- C) Around belly and hips
- D) Liver and kidneys

A B C D

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

It is an example of N-containing polysaccharide:

- A) Cellulose
- B) Starch
- C) Chitin
- D) Glycogen

A B C D

Back First Prev Next Last

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

How many water molecules are released during the synthesis of one molecule of triglyceride?

- A) 1
- B) 2
- C) 3
- D) 4

A B C D

Back First Prev Next Last

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

In an insulin molecule, the polypeptide chains are held together by:

- A) Peptide bond
- B) Hydrogen bond
- C) Disulphide bridges
- D) Ionic interaction

A B C D

Back First Prev Next Last

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The diameter of DNA molecule is constant because of:

- A) Two polynucleotide chains
- B) Purines are always forming H-bonds with pyrimidine
- C) Sugar-phosphate backbone
- D) High molecular weight

A B C D

Back First Prev Next Last

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Precursor activation is the activation of an enzyme controlled reaction by:

- A) Initial substrate
- B) Intermediate substances
- C) Final product
- D) Inhibitor

A B C D

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Extreme change in pH causes denaturation of enzyme by breaking:

- A) Peptide bonds
- B) Disulphide bonds
- C) Hydrogen bonds
- D) Ionic bonds

A B C D

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which of the following bond will not break if an enzyme molecule is denatured?

- A) Disulphide bond
- B) Peptide bond
- C) Hydrogen bonds
- D) Hydrophobic interaction

A B C D

Back First Prev Next Last

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which of the following does not contain a five-carbon sugar?

- A) RuBP
- B) NAD⁺
- C) FAD
- D) Rubisco

A B C D

Back First Prev Next Last

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

All of the following are characteristics of head of chlorophyll except:

- A) Flat and square
- B) Contains magnesium
- C) Light absorbing
- D) Hydrophobic

A B C D

Back First Prev Next Last

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

All of the following functions are performed by carotenoids except:

- A) Broaden the absorption spectrum
- B) Protection of chlorophyll molecules
- C) Protection of human eyes
- D) Formation of ATP and NADPH

A B C D

Back First Prev Next Last

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Difference between PS-I and PS-II in plants mainly lies in:

- A) Primary electron acceptor
- B) Antenna complex
- C) Chlorophyll 'a'
- D) Chlorophyll 'b'

A B C D

Back First Prev Next Last

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

In glycolysis, water molecules are released when:

- A) BPG is converted into 3PG
- B) 3-PG is converted into 2-PG
- C) 2-PG is converted into PEP
- D) PEP is formed from pyruvate

A B C D

Back First Prev Next Last

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

It involves complete breakdown of glucose molecule:

- A) Aerobic respiration
- B) Anaerobic respiration
- C) Lactate fermentation
- D) Alcoholic fermentation

A ☒ B ☐ C ☐ D ☐

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The step in which NADH is formed without decarboxylation:

- A) Pyruvate oxidation
- B) Alcoholic fermentation
- C) Conversion of α -ketoglutarate to succinate
- D) Conversion of malate into oxaloacetate

A B C D

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The process of conversion of single stranded RNA molecule into double stranded DNA is carried out in:

- A) Capsid of HIV
- B) Envelope of HIV
- C) Cytoplasm of T-cells
- D) Nucleoplasm of T-cells

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The universal structure of all living organisms is _____ which is not related to viruses.

- A) Protein
- B) RNA
- C) DNA
- D) Ribosomes

A B C D

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

HIV causes acquired immunodeficiency syndrome because it primarily attacks on:

- A) Nervous system
- B) Immune system
- C) Reproductive system
- D) Circulatory system

A B C D

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Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

It is an example of acellular infectious entity that contain both protein and nucleic acid:

- A) Prions
- B) Viroids
- C) Viruses
- D) Bacteria

A ☐ B ☒ C ☒ D ☐

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Curved or comma shaped bacteria are called:

- A) Bacilli
- B) Vibrio
- C) Spirilla
- D) Spirochete

A B C D

Back First Prev Next Last

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

As compared to eukaryotic cell, plasma membrane in bacterial cell has also role in:

- A) Transportation
- B) Regulation
- C) Respiration
- D) Nerve impulse conduction

A B C D

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Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

During nuclear mitosis, _____ does not occur.

- A) Spindle formation from centrioles
- B) Equal distribution of chromosomes
- C) Division of chromosomes
- D) Nuclear envelope remains intact

A B C D

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Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which group of protozoa moves with help of pseudopodia?

- A) Amoebae
- B) Foraminifera
- C) Actinopods
- D) All a, b, c

A B C D

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Internal buds formed in sponges as a result of asexual reproduction are called:

- A) Choanocytes
- B) Gemmules
- C) Polyps
- D) Medusae

A ☐ B ☒ C ☐ D ☐

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Non flowering, seed producing plants are:

- A) Ferns
- B) Gymnosperms
- C) Whisk ferns
- D) Angiosperms

A B C D

Back First Prev Next Last

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Whisk ferns is common name of members of:

- A) Psilopsida
- B) Lycopsida
- C) Sphenopsida
- D) Pteropsida

A B C D

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

What is the means of transport through which sucrose moves into sieve tube of source and out of sieve tube at sink?

- A) Simple diffusion
- B) Facilitated diffusion
- C) Active transport
- D) Passive transport

A B C D

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Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Blood returning to the heart via pulmonary vein is drained into:

- A) Vena cava
- B) Left atrium
- C) Right atrium
- D) Left ventricle

A ☐ B ☒ C ☐ D ☐

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Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

After a fatty meal, fat globules may make up to _____% of the lymph.

- A) 10%
- B) 90%
- C) 1%
- D) 99%

A ☐ B ☐ C ☒ D ☐

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which is the lymphoid mass among following?

- A) Liver
- B) Thoracic duct
- C) Tonsillitis
- D) Adenoid

A B C D

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Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Antibodies are secreted in all of the following except:

- A) Blood
- B) Milk
- C) Lymph
- D) Urine

A B C D

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Large antigen-antibody complexes will form if there are multiple copies of antigenic molecules on which cells?

- A) T-Cells
- B) Natural killer cells
- C) B-cells
- D) Foreign cells

A B C D

Back First Prev Next Last

Biology

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Identify the components/structure produce by the B-lymphocytes:

- | | | |
|-----------------------------|--------------|--------------------|
| A) Killer lymphocyte clones | Memory cells | Plasma clone cells |
| ✓ | ✓ | ✗ |
| B) Killer lymphocyte clones | Memory cells | Plasma clone cells |
| ✓ | ✗ | ✓ |
| C) Killer lymphocyte clones | Memory cells | Plasma clone cells |
| ✓ | ✓ | ✓ |
| D) Killer lymphocyte clones | Memory cells | Plasma clone cells |
| ✗ | ✓ | ✓ |

- A ☐ B ☐ C ☐ D ☒

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Main task assigned to collecting duct is to:

- A) Filter blood
- B) Produce secretions
- C) Concentrate urine
- D) Dilute urine

A ☐ B ☐ C ☒ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Most concentrated interstitial fluid is present in_____ of kidney.

- A) Outer cortex
- B) Inner cortex
- C) Inner medulla
- D) Outer medulla

A B C D

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Cells named podocytes occur in:

- A) PCT of nephron
- B) Glomerular capillarie
- C) Outer wall of Bowman's capsules
- D) Inner wall of Bowman's capsules

A ☐ B ☐ C ☐ D ☒

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Peritubular capillaries arise from subdivision of:

- A) Afferent arterioles
- B) Efferent arterioles
- C) Vasa recta
- D) Renal artery

A ☐ B ☒ C ☐ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Identify the mis-matched pair:

- A) Identify the mis-matched pair:
- B) Non-shivering thermogenesis: Thyroid hormones
- C) Non-shivering thermogenesis: Thyroid hormones
- D) Thermostat: Hypothalamus

A ☐ B ☐ C ☒ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Bundle of collagen, non-elastic fibres that attach muscle to bone are:

- A) Capsule
- B) Belly
- C) Tendon
- D) Ligament

A B C D

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

When undergoing physical exercise, healthy adult skeletal muscle is likely to respond with an increase in all of the following except:

- A) Glycolysis
- B) The citric acid cycle
- C) Cell division
- D) Protein production

A ☐ B ☐ C ☒ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Irregular strips, involuntary control and branched nature is related to which type of muscle:

- A) Skeletal muscles
- B) Visceral muscles
- C) Cardiac muscles
- D) Smooth muscles

A B C D

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

During resting state, the neurolemma is virtually impermeable to all ions except:

- A) Na^+
- B) Cl^-
- C) HCO_3^{-1}
- D) K^+

A B C D

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which of the following membrane potential depicts hyperpolarization?

- A) -50mV
- B) +50mV
- C) -90mV
- D) -70mV

A ☐ B ☐ C ☒ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

All of the following are examples of neurotransmitters except:

- A) Acetylcholin
- B) Heparin
- C) Serotonin
- D) Dopamine

A ☐ B ☒ C ☐ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Chemically, hormones may be of:

- A) Two types
- B) Four types
- C) Six types
- D) Ten types

A ☐ B ☒ C ☐ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

In diabetes mellitus, the toxic metabolites from catabolism of fats may accumulate and are only lost from the kidneys with:

- A) Valuable anions
- B) Valuable proteins
- C) N-containing waste substances
- D) Valuable metal cations

A B C D

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Follicular phase of ovarian cycle begins with:

- A) Development of follicle
- B) Rupture of mature follicle
- C) Ovulation
- D) Release of estrogen

A ☒ B ☐ C ☐ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

It is the phase of female reproductive cycle that lasts for 3-7 days and is caused due to drop in progesterone level:

- A) Follicular phase
- B) Ovulation phase
- C) Luteal phase
- D) Menstrual phase

A B C D

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Sexually transmitted disease which destroys immune system of infected person:

- A) AIDS
- B) Syphilis
- C) Gonorrhea
- D) Genital herpes

A B C D

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Mendel is famous for his work on:

- A) *Pisum sativum*
- B) *Drosophila melanogester*
- C) Neurospora
- D) *E. coli*

A B C D

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Mendel's law of independent assortment holds applicable for genes situated on:

- A) Non-homologous chromosomes
- B) Homologous chromosomes
- C) Extra nuclear genetic element
- D) Some chromosome

A ☒ B ☐ C ☐ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The monohybrid genotypic ratio 1:2:1 in F_2 generation indicates:

- A) Dominance
- B) b. Incomplete dominance
- C) Segregation of alleles
- D) Independent assortment

A ☐ B ☐ C ☒ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

If probability of wrinkled seed is $\frac{1}{4}$ and yellow seed is $\frac{3}{4}$ then probability for round green seed plant will be:

- A) $\frac{1}{16}$
- B) $\frac{3}{16}$
- C) $\frac{4}{16}$
- D) $\frac{9}{16}$

A ☐ B ☒ C ☐ D ☐

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73 74 75 76
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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Drosophila has four pairs of chromosomes. How many linkage groups does it has?

- A) Eight
- B) Four
- C) One less than the pairs of chromosomes
- D) One more than the pairs of chromosomes

A ☐ B ☒ C ☐ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

In humans, the male has the following combination of chromosomes:

- A) 44 AA + XO
- B) 44 AA + XX
- C) 44 AA + XY
- D) 44 AA + XXY

A ☐ B ☐ C ☒ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

A female is carrier for hemophilia marries with a normal male. Daughters of such a female would be:

- A) 50% normal and 50% carrier
- B) 50% normal and 50% hemophilic
- C) 50% carrier and 50% hemophilic
- D) 25% carrier and 75% hemophilic

A ☒ B ☐ C ☐ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

What is the function of the enzyme DNA polymerase in a cell?

- A) To synthesize a polypeptide using DNA as a template
- B) To synthesis a stand of DNA using a polypeptide as a template
- C) To synthesize a strand of DNA using DNA as a template
- D) To synthesize a strand of mRNA using DNA as a template

A B C D

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

What terminates the formation of a polypeptide chain during protein synthesis in the cell?

- A) When a stop codon is reached on the mRNA molecule
- B) When a stop codon is reached on the mRNA molecule
- C) When the ribosome reaches the end of the mRNA molecule
- D) When the ribosome reaches the end of the tRNA molecule

A B C D



Koole



FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

An unidentified single-stranded molecule was described as having the following features:

1. Complementary base pairing along some of its length
2. An area that can attach to a ribosome
3. A site to which a specific amino acid attaches

What is the unidentified molecule?

A) Sigma factor

B) mRNA

C) rRNA

D) tRNA

A ☐

B ☐

C ☐

D ☒

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Chemistry



Koole



FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which statements are correct about DNA transcription and translation?

Transcription
Is semi-conservative

Translation
Produces mRNA

A)

Transcription
Produces mRNA

Translation
Is semi-conservative

B)

Transcription
Occurs at the surface of ribosomes

Translation
Produces mRNA

C)

Transcription
Produces mRNA

Translation
Occurs at the surface of ribosomes

D)

A ☐ B ☐ C ☐ D ☒

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

In a DNA molecule, the base sequence AGT codes for the amino acid serine. What is the base sequence of the anti-codon on the tRNA to which serine becomes attached?

- A) AGU
- B) GAU
- C) TCA
- D) UCA

A ☒ B ☐ C ☐ D ☐



Koole



FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which type of sugar and types of bonds are found in a DNA molecule?

- A) Type of sugar
Non-reducing Types of bonds
Hydrogen and ionic
- B) Type of sugar
Non-reducing Types of bonds
Hydrogen and peptide
- C) Type of sugar
Reducing Types of bonds
Covalent and hydrogen
- D) Type of sugar
Reducing Types of bonds
Hydrogen and peptide

A ☐ B ☐ C ☒ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Phenylketonuria is example of:

- A) Polyploidy
- B) Translocation
- C) Inversion
- D) Point mutation

A ☐ B ☐ C ☐ D ☒

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The raw material for organic evolution is:

- A) Asexual reproduction
- B) Nutritive substances
- C) Mutation
- D) Effect of hormones

A B C D

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which one of the following is not a character of fossils?

- A) Actual remains of ancient organisms
- B) Traces of ancient organisms
- C) Living
- D) May be embedded in sand, resin or ice

A B C D

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

May be embedded in sand, resin or ice

- A) DNA and protein
- B) DNA and lipids
- C) DNA and carbohydrates
- D) DNA and RNA

A B C D

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which of the following were the earliest to evolve on Earth?

- A) Plants
- B) Prokaryotes
- C) Protists
- D) Fish

A B C D

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Genes for antibiotic resistance are located on:

- A) Bacterial genome
- B) Plasmids
- C) Mesosomes
- D) Plasma membrane

A ☐ B ☒ C ☐ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The polymerase chain reaction:

- A) Uses RNA polymerase
- B) Takes place in huge bioreactors
- C) Uses DNA polymerase
- D) Makes lot of non-identical DNA copies

A ☐ B ☐ C ☒ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Identify the incorrectly matched pair.

- A) Identify the incorrectly matched pair.
- B) Protoplast – plant cell engineering
- C) DNA fragments – DNA fingerprinting
- D) DNA polymerase – PCR

A ☒ B ☐ C ☐ D ☐

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Restriction enzymes found in bacterial cells are commonly used:

- A) During DNA replication
- B) To degrade the bacterial cell's DNA
- C) To degrade viral DNA
- D) To attach pieces of DNA together

A B C D

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Common method that is considered suitable to get a large quantity of gene or protein products is:

- A) Gene pooling
- B) PCR
- C) Recombinant DNA technology
- D) Hydroponic culture

A B C D

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57 58 59 60

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65 66 67 68

69 70 71 72

73 74 75 76

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Chemistry

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

These are used to produce genetically engineered polyhydroxy butyrate:

- A) Bacterial species
- B) Plants species
- C) Fungal species
- D) Weed species

A B C D

Chemistry

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Number of electrons in 1.7g of OH^- are

- A) $1.5N_A$
- B) N_A
- C) $0.1 N_A$
- D) $0.5 N_A$

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

42g of N_2 react with excess of oxygen to produce amount of 'NO' is

- A) 90g
- B) 60g
- C) 45g
- D) 32g

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

8g of unknown gas at 1atm pressure and 0°C occupy volume of 11.207 dm³. Unknown gas is

- A) NH₃
- B) CH₄
- C) O₂
- D) Cl₂

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Gas having marked attractive forces if value of compressibility factor's 'Z' is

- A) 0.2
- B) 1
- C) 1.5
- D) 1.8

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Molten or aqueous NaCl conduct current due to

- A) Loose packing
- B) Free electrons
- C) Free electrons and ions
- D) Translatory motion of ions

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which molecule cannot form intermolecular H-bonding

- A) HF
- B) $\text{CH}_3\text{-NH}_2$
- C) $\text{CH}_3\text{-CHO}$
- D) $\text{CH}_3\text{-OH}$

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Highest 1st ionization energy is possessed by which configuration

- A) $1s^2, 2s^2, 2p^3$
- B) $1s^2, 2s^2, 2p^6, 3s^2, 3p^3$
- C) $1s^2, 2s^2, 2p^6, 3s^2, 3p^5$
- D) $1s^2, 2s^2$

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

A divalent cationic species has 2,8,15 electrons. Its nucleon number is 59. Number of electrons and neutrons are

- A) 32, 27
- B) 36, 27
- C) 36, 32
- D) 27, 32

A ☐ B ☐ C ☐ D ☒

Chemistry

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Number of d-electrons in Cu^{+1} that have spin quantum number $-1/2$

- A) 5
- B) 6
- C) 3
- D) 7

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which one has highest pKa value

- A) HCOOH
- B) CH_3COOH
- C) $\text{CH}_3\text{CH}_2\text{COOH}$
- D) $(\text{CH}_3)_2\text{CH-COOH}$

A ☒ B ☐ C ☐ D ☒

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Formaldehyde and formic acid are chemically distinguished by

- A) H_2SO_4
- B) NaHCO_3
- C) Conc. HCl + Anhydrous ZnCl_2
- D) $\text{Cu}(\text{OH})_2$ + NaOH + Tartarate ion

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which pair can be chemically distinguished by $I_2 + NaOH$

- A) Methanal and propanal
- B) 3-Pentanone and butanone
- C) Acetone and ethanal
- D) Pentanoic acid and 3-pentanone

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Acetaldehyde reacts with methyl amine to form

- A) Oxime
- B) Imine
- C) Hydrazone
- D) Acetals

A B C D

Back First Prev Next Last

Chemistry

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The compound present in the biological preservative formalin is

- A) CH_3OH
- B) HCHO
- C) CH_3CHO
- D) HCOOH

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Dehydration product of alcohol is / are

- A) Aldehyde and ketone
- B) Ether and ester
- C) Alkene and ether
- D) Ester and carboxylic acid

A B C D

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Chemistry

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

During hydration of propene, inter-mediate formed is

- A) Ethyl hydrogen sulphate
- B) Iso-propyl hydrogen sulphate
- C) n-propyl hydrogen sulphate
- D) All of these

A B C D

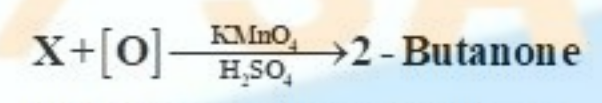
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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted



What is "X" in above reaction is

- A) Iso-propyl alcohol
- B) 2-Methyl-2-propenol
- C) Iso-Butyl alcohol
- D) 2-Butanol

A ☐ B ☒ C ☐ D ☒

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Tertiary alkyl halide among following is

- A) 2-chloro-3,3-dimethyl butane
- B) 3-chloro-2-methyl pentane
- C) 2-chloro-2-methyl pentane
- D) 2-chloro-3-methylbutane

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Rate of S_N1 mechanism depends on

- A) Conc. of substrate
- B) Nature of solvent
- C) Stability of carbonium ion
- D) All of these

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Correct order of reactivity of alkyl halide is

- A) $R-Cl > R-Br > R-I > R-F$
- B) $R-I > R-Br > R-Cl > R-F$
- C) $R-F > R-Br > R-Cl > R-I$
- D) $R-F > R-Cl > R-Br > R-I$

A ☐ B ☒ C ☐ D ☒

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which is not ortho, para directing group

- A) $-\text{OCOCH}_3$
- B) $-\text{CH}_3$
- C) $-\text{OR}$
- D) $-\text{CCl}_3$

A ☐ B ☒ C ☐ D ☒

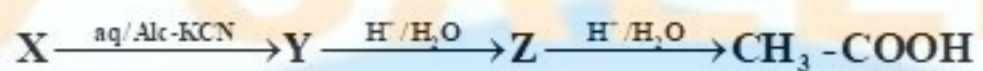
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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted



"Y" and "Z" in above reaction are

- A) $\text{CH}_3\text{-Cl}$, $\text{CH}_3\text{-CN}$
- B) $\text{CH}_3\text{-Cl}$, CH_3CONH_2
- C) $\text{CH}_3\text{-CN}$, CH_3CONH_2
- D) CH_3CONH_2 , $\text{CH}_3\text{-CN}$

A ☐ B ☐ C ☒ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted



Product in above reaction is

- A) Acetophenone
- B) Benzophenone
- C) Benzyl chloride
- D) Phenyl ethanone

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

C - H bond length in benzene is

- A) 1.34 A°
- B) 1.20 A°
- C) 1.09 A°
- D) 1.54 A°

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

1-Chloro-2,2-dimethylpropane on treatment with caustic potash give

- A) 2-Methyl propene
- B) 2-Methyl-2-butene
- C) 2-Methyl-1-butene
- D) Tertiary alcohol

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Acetylene on treatment with ammoniacal silver nitrate solution give ____ ppt.

- A) Reddish brown
- B) White
- C) Green
- D) Blue

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Acidic hydrogen is not present in

- A) $\text{CH}_3\text{-CH}_2\text{-OH}$
- B) $\text{CH}_3\text{-COOH}$
- C) $\text{CH}_2=\text{CH}_2$
- D) $\text{CH}_3\text{-C}\equiv\text{CH}$

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which compound follow markowinkov's rule

- A) Iso-butylene
- B) 1-Butene
- C) 2-Butene
- D) Both "a" and "b"

A ☐ B ☐ C ☒ D ☒

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Number of isomer of C_4H_8 are

- A) 3
- B) 4
- C) 2
- D) 5

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

In $[\text{CrCl}_2(\text{H}_2\text{O})_4]$ Cl, complex the central metal atom has oxidation state of

- A) 2
- B) 4
- C) 3
- D) 6

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

In which of following pairs both ions are colored in aq. Solution

- A) Ni^{+2} , Cu^{+1}
- B) Sc^{+3} , Ti^{+3}
- C) Sc^{+3} , Co^{+2}
- D) Ni^{+2} , Ti^{+3}

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which one will have least value of binding energy

- A) Mn
- B) Ni
- C) V
- D) Sc

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

pH of 0.05 M CH_3COONa with 0.5 M CH_3COOH is _____ if $\text{pK}_a = 4.74$

- A) 1
- B) 3.74
- C) 4.74
- D) 5.74

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Ksp value of $4s^3$ is shown by following

- A) $AgCl, PbCl_2$
- B) $Ca(OH)_2, CaF_2$
- C) $Fe(OH)_3, Ag_2S$
- D) $CaCO_3, Cu_2S$

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

For reversible reaction, which Kc value indicate that the forward reaction will be least favourable

- A) 10^{-2}
- B) 10^{-13}
- C) 10^1
- D) 10^5

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

For Haber's process, correct statement is

- A) K_c decreases with rise in temperature
- B) Yield of reaction decreases with rise temperature
- C) Rate increases with rise in temperature
- D) All are correct

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Rate of reaction become double when concentration of reactant increases 4 times, order of reaction is

- A) $\frac{1}{2}$
- B) $\frac{1}{4}$
- C) $-\frac{1}{2}$
- D) 2

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

If $t_{1/2}$ of a certain reaction is directly proportional to initial con. Order of reaction is

- A) Zero
- B) One
- C) Two
- D) Three

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Order of E° reduction is
 $W > X > Y > Z$, incorrect statement is

- A) Z can easily evolve H_2 gas from dilute acid
- B) W can be easily oxidized
- C) $X+2$ can be reduced by Y
- D) X / Y form voltaic cell

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Value of E° reduction depend on

- A) Change in temperature
- B) Concentration of ion
- C) Pressure
- D) All of these

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

In sodium tetrathionate ($\text{Na}_2\text{S}_4\text{O}_6$) oxidation state of "S" is

- A) 2
- B) 2.5
- C) 3
- D) 4

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Increase in internal energy of system is 100J if it absorb 300J of heat how much work is done by system.

- A) 200J
- B) -200J
- C) 400J
- D) -400J

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Heat of reaction at constant pressure is called

- A) State function
- B) Enthalpy change
- C) Path function
- D) Internal energy change

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Lowest ΔH_n is for

- A) HCl / NaOH
- B) H_3PO_4 / $Ba(OH)_2$
- C) HF / KOH
- D) CH_3COOH / NH_4OH

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Bond having highest bond energy

- A) F - F
- B) C - C
- C) H - H
- D) N - N

A ☐ B ☐ C ☒ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which have different geometry than others

- A) NF_3
- B) H_3O^+
- C) NH_3
- D) AlCl_3

A ☐ B ☐ C ☐ D ☒

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which one has highest lattice energy

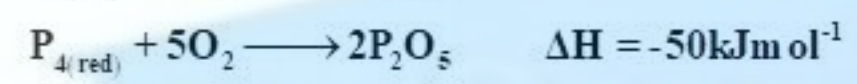
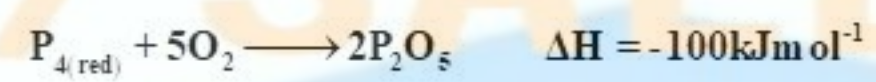
- A) MgO
- B) CaO
- C) Na₂O
- D) K₂O

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted



Above mentioned reaction have hypothetical values of heat change during the reaction. Calculate amount of heat required to convert white phosphorous to red phosphorus.

- A) -50 kJ mol^{-1}
- B) $+50 \text{ kJ mol}^{-1}$
- C) $+100 \text{ kJ mol}^{-1}$
- D) -150 kJ mol^{-1}

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Pair of amphoteric oxide in nature

- A) BeO , Al_2O_3
- B) BeO , Li_2O
- C) MgO , Al_2O_3
- D) Na_2O , Na_2O_2

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Dissolved oxygen present in water is used by fishes for breathing purposes. Which of the following force of attraction is responsible for dissolved oxygen in water is

- A) Dipole - dipole force
- B) Debye's force
- C) London dispersion force
- D) Hydrogen bonding

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Molten sodium burns with ____ flame in chlorine atmosphere

- A) Brick red
- B) Brilliant yellow
- C) Pale yellow
- D) Bluish

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which alkaline earth metal is completely oxidized at 800°C

- A) Be
- B) Mg
- C) Ca
- D) Sr

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which oxide show most acidic character

- A) SO_3
- B) SiO_2
- C) P_2O_5
- D) Cl_2O_7

A ☐ B ☐ C ☐ D ☒

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Largest ionic radius for hypothetical species is

- A) C^{-4}
- B) P^{-3}
- C) S^{-2}
- D) Cl^{-1}

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which is possible redox reaction

- A) $\text{Cl}_2 + 2\text{Br}^{-1} \longrightarrow \text{Br}_2 + 2\text{Cl}^{-1}$
B) $\text{Br}_2 + 2\text{Cl}^{-1} \longrightarrow \text{Cl}_2 + 2\text{Br}^{-1}$
C) $\text{Cl}_2 + 2\text{F}^{-1} \longrightarrow \text{F}_2 + 2\text{Cl}^{-1}$
D) $\text{Br}_2 + 2\text{F}^{-1} \longrightarrow \text{F}_2 + 2\text{Br}^{-1}$

A ☒ B ☐ C ☐ D ☐

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Physics

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

In the following rection 'M' represents the metal



- A) Be
- B) Mg
- C) Ca
- D) Ba

A B C D

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Physics

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The planar molecule is

- A) Methanal
- B) Ethanal
- C) Acetone
- D) All of these

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which of the following pair of molecules have different hybridization but same shape

- A) BF_3 , SO_3
B) NH_3 , BF_3
C) H_2O , BeCl_2
D) H_2O , SnCl_2

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Proteins are classified into following major classes

- A) Simple proteins
- B) Conjugated proteins
- C) Derived proteins
- D) All of these

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

In which of the following compound coordinate covalent character is maximum

- A) H_3O^+
B) NH_4^+
C) BH_4^-
D) BF_4^-

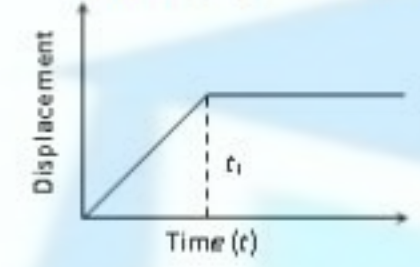
A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The $x-t$ graph shown in figure represents



- A) Constant velocity
- B) Velocity of the body is continuously changing
- C) Instantaneous velocity
- D) The body travels with constant speed upto time t_1 and then stops

A ☐ B ☐ C ☐ D ☒

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Two projectiles are projected at angle of 20° and 70° with same velocity which one have longer range

- A) Which is fired at 20°
- B) Both have same range
- C) Which is fired at 70°
- D) none of these

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The retardation is defined as

- A) increase in velocity per unit time
- B) decrease in velocity per unit time
- C) decrease in speed per unit time
- D) increase in speed per unit time

A ☐ B ☒ C ☐ D ☐

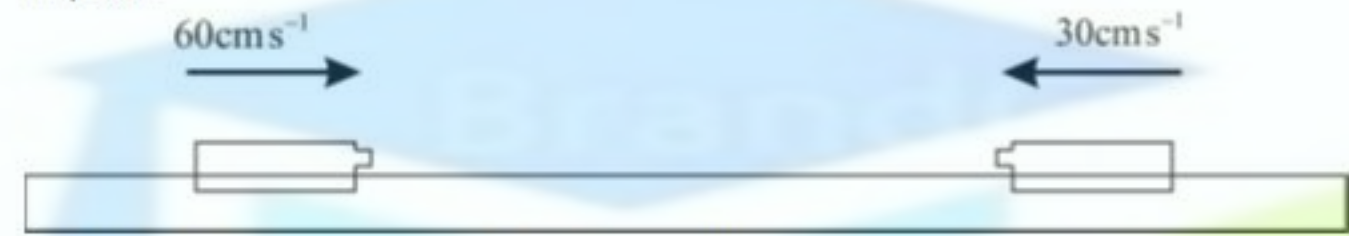
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Physics

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Two equal masses travel towards each other on a frictionless air track at speeds of 60 cm s^{-1} and 30 cm s^{-1} . They stick together on impact.



What is the speed of the masses after impact?

- A) 15 cm s^{-1}
- B) 30 cm s^{-1}
- C) 20 cm s^{-1}
- D) 45 cm s^{-1}

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

A man pushes a wall with 50 (N) and it displaces it zero (m), his work is

- A) Negative
- B) no work
- C) Positive
- D) may all possible

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The same retarding force is applied to stop a train. The train stops after 80 m. If the speed is doubled, then the distance will be

- A) The same
- B) Doubled
- C) Halved
- D) Four times

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

If the speed becomes doubled. The K.E will be

- A) Doubled
- B) Remains same
- C) Half
- D) Four times

A ☐ B ☐ C ☐ D ☒

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

To travel at a constant speed, a car engine provides 24 kW of useful power. The driving force on the car is 600 N. At what speed does it travel?

- A) $25ms^{-1}$
- B) $2.5ms^{-1}$
- C) $4.0ms^{-1}$
- D) $40ms^{-1}$

A ☐ B ☐ C ☐ D ☒

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FLP-4 (Complete Syllabus)

Correct

Incorrect

Unattempted

For a particle in uniform circular motion the relation $a = r\alpha$ of accelerations hold. The acceleration 'a'

- A) Is centripetal acceleration
- B) Is tangential acceleration
- C) Is radial acceleration
- D) both a and b

A ☐

B ☒

C ☐

D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

If a body is moving in a circular path with constant speed, then the

- A) Velocity and acceleration are perpendicular to each other
- B) Velocity and acceleration are anti-parallel
- C) Velocity and acceleration are parallel to each other
- D) Both have zero magnitude

A ☒ B ☐ C ☐ D ☐

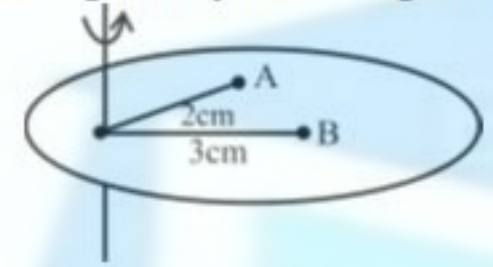
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Physics

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

A rigid body is rotating about on axis of rotation as shown.



The ratio of angular accelerations of point A to that of B.

- A) 1 : 1
- B) 3 : 2
- C) 2 : 3
- D) 1 : 6

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

$2\pi r$ subtends an angle of

- A) 1 radian
- B) 4 radian
- C) 2 radian
- D) $2\pi rad$

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

If a Radar system designed in accordance with the Doppler's effect, if an airplane is moving away from a Radar, the wavelength of the reflected wave from the air plane would be:

- A) Smaller than the transmitting wave
- B) Same as that of the transmitting wave
- C) Larger than the transmitting wave
- D) Either smaller or larger than the transmitting wave

A ☐ B ☐ C ☒ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The frequency of the first harmonic of a string stretched between two points is 100 Hz. The frequency of the third overtone is

- A) 200 Hz
- B) 400 Hz
- C) 300 Hz
- D) 600 Hz

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

"Stationary waves" are so called because in them

- A) the particles of the medium are not disturbed
- B) there occurs no flow of energy along the wave
- C) the particles of the medium do not execute SHM
- D) the interference effect can't be observed

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

A tuning fork completes 20 vibrations in 0.4 s. its frequency in (s^{-1})

- A) 50
- B) 60
- C) 100
- D) none of these

A ☒ B ☐ C ☐ D ☐

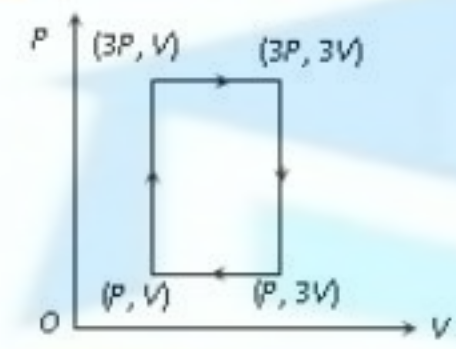
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Physics

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

An ideal monoatomic gas is taken round the cycle ABCDA as shown in following P - V diagram. The work done during the cycle is



- A) PV
- B) $2 PV$
- C) $4 PV$
- D) Zero

A ☐ B ☐ C ☒ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

If 150 J of heat is added to a system and the work done by the system is 110 J, then change in internal energy will be

- A) 260 J
- B) 150 J
- C) 110 J
- D) 40 J

A ☐ B ☐ C ☐ D ☒

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Farad is not equivalent to

- A) $\frac{\text{coulomb}}{\text{Volt}}$
- B) $\frac{\text{Joule}}{(\text{Volt})^2}$
- C) $\frac{(\text{coulomb})^2}{\text{Joule}}$
- D) $\frac{\text{Volt}}{\text{coulomb}}$

A ☐ B ☐ C ☐ D ☒

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

If an insulating material called dielectric is introduced between the plates, the capacitance of capacitor is:

- A) $\frac{A\epsilon_0\epsilon_r}{2d}$
- B) $\frac{A\epsilon_0\epsilon_r}{d}$
- C) $\frac{Ad}{\epsilon_0\epsilon_r}$
- D) $\frac{2Ad\epsilon_0\epsilon_r}{d}$

- A ☐
- B ☒
- C ☐
- D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Neutral zone in electric field of two similar charges is region where

- A) Both positive and negative charges are present
- B) An electric dipole exists
- C) Equal quantity of both positive and negative charges are present
- D) No electric field line passes

A ☐ B ☐ C ☐ D ☒

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The electric potential at the surface of an atomic nucleus ($Z = 50$) of radius 9.0×10^{-15} m is

- A) 9V
- B) 8×10^6 V
- C) 9×10^5 V
- D) 80 V

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

A total charge of 100 C flows through a 12W light bulb in a time of 50s. What is the potential difference across the bulb during this time?

- A) 0.12V
- B) 6.0V
- C) 2.0V
- D) 24V

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The electrical resistance of metals

- A) Increases with an increase in temperature
- B) Is independent of temperature
- C) Decrease with an increase in temperature
- D) Sometimes increases sometimes decreases with temperature

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which one of the following bulbs has the least resistance?

- A) 100 watt
- B) 200 watt
- C) 300 watt
- D) 60 watt

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Wheat stone bridge is an arrangement consisting of

- A) 2 resistances
- B) 3 resistances
- C) 4 resistances
- D) 5 resistances

A ☐ B ☐ C ☒ D ☐

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133 134 135 136
137 138 139 140
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145 146 147 148
149 150 151 152
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161 162 163 164
165 166 167 168

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The radius of curvature of the path of the charged particle in a uniform magnetic field is directly proportional to

- A) the energy of the particle
- B) the intensity of the field
- C) the momentum of the particle
- D) the charge on the particle

A ☐ B ☐ C ☒ D ☐

125 126 127 128
129 130 131 132
133 134 135 136
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Physics
141 142 143 144
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149 150 151 152
153 154 155 156
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161 162 163 164
165 166 167 168

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

A charge of 1C is moving in a magnetic field of 0.5Tesla with a velocity of 10m/sec Perpendicular to the field. Force experienced is

- A) 5 N
- B) 10N
- C) 0.5 N
- D) 0N

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The north pole of a magnet is brought near a metallic ring. The direction of the induced current in the ring will be

- A) clockwise
- B) anticlockwise
- C) towards north
- D) towards south

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

A loss free transformer has 500 turns on its primary winding and 2500 in secondary. The meters of the secondary indicate 200 volts at 8 amperes under these conditions. The voltage and current in the primary is

- A) 100 V, 16 A
- B) 160 V, 10 A
- C) 40 V, 40 A
- D) 80 V, 20 A

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

In a transformer 220 ac voltage is increased to 2200 volts. If the number of turns in the secondary are 2000, then the number of turns in the primary will be.

- A) 100
- B) 150
- C) 200
- D) 20

A ☐ B ☐ C ☒ D ☐

161162163164

165166167168

169170171172

173174175176

177178179180

English

181182183184

185186187188

189190191192

193194195196

197198199200

FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The armature of a generator consist of a flat square coil of side 4 cm and 200 turns. The coil rotates in a magnetic field of 0.75T. The angular speed so that a maximum emf of 1.6V is generated is __

- A) $\frac{20}{3} rads^{-1}$
- B) $\frac{20}{3} rotations / s$
- C) $\frac{20}{3} rpm$
- D) None

A ☒ B ☐ C ☐ D ☐

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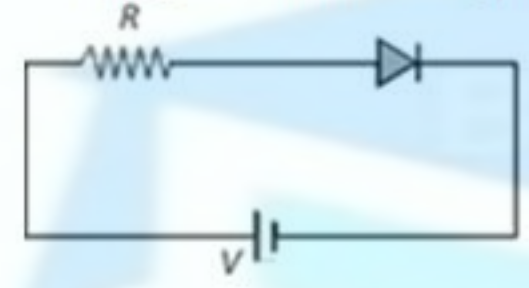
193 194 195 196

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

For the given circuit of PN-junction diode, which of the following statement is correct?



- A) in forward biasing the voltage across R is 2V
- B) in forward biasing the voltage across R is V
- C) in reverse biasing the voltage across R is V
- D) in reverse biasing the voltage across R is 2V

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

During negative half cycle of A.C then p-n junction offers

- A) high resistance
- B) low resistance
- C) no resistance
- D) all of these

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Modern versions of electron microscope which produces three dimensioned image of the objects called

- A) Modern electron microscope
- B) Three-dimensional electron microscope
- C) High-power three-dimensional electron microscope
- D) Scanning electron microscope

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

De Broglie wave length associated with an electron at a speed of $1 \times 10^6 \text{ ms}^{-1}$

- A) $7 \times 10^{-10} \text{ m}$
- B) $6 \times 10^{-10} \text{ m}$
- C) $5 \times 10^{-10} \text{ m}$
- D) $4 \times 10^{-10} \text{ m}$

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which series is emitted when electron jumps from a higher orbit to fifth orbit?

- A) Lyman
- B) Balmer
- C) Pfund
- D) Brackett

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Which of the following is not true about radioactivity?

- A) Is a nuclear phenomenon
- B) Is not altered by any physical change
- C) Is not altered by any chemical change
- D) Is a property relating to outside the nucleus

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The emission of β -particle from Polonium -218, results in the formation of

- A) Astatine -218
- B) Lead -218
- C) Thorium -218
- D) Protactinium -218

A ☒ B ☐ C ☐ D ☒

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

The half-life of protactinium

- A) 6.6 Hrs
- B) 24 Hrs
- C) 6 days
- D) weeks

A

☒

B

☐

C

☐

D

☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Spot the error: In the following sentences some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains the mistake that needs to be corrected.

In the context of the affinity of hemoglobin for oxygen, there are four primary regulators, each of which have a negative impact.

- A) for
- B) are
- C) which
- D) have

Explanation
(D-has)

A ☐ B ☐ C ☐ D ☒

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Spot the error: In the following sentences some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains the mistake that needs to be corrected.

Not only did they break into the house and stole his books, but they also tore up his manuscripts.

- A) break
- B) stole
- C) tore
- D) manuscripts

Explanation
(B-steal)

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Spot the error: In the following sentences some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains the mistake that needs to be corrected.

Mustafa Kamal was having a good use of the freedom which the absence of the talkers had given him.

- A) having
- B) which
- C) absence
- D) talkers

Explanation
(A-making)

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct

Incorrect

Unattempted

Spot the error: In the following sentences some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains the mistake that needs to be corrected.
A few people find jobs a couple of months every year the North or South, come back half dead of homesickness and live on next to nothing the rest of the year.

- A) find
- B) months
- C) the
- D) dead

Explanation
(C-Remove the)

A ☐

B ☐

C ☒

D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Spot the error: In the following sentences some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains the mistake that needs to be corrected.

His handicap can be attributed with the fact that he is born by an undernourished mother.

- A) with
- B) that
- C) born
- D) undernourished

Explanation
(A-to)

A ☒ B ☐ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Choose the correct **Active Voice** of the given sentence.
He will be greatly surprised if he is chosen. Choose the correct Active Voice.

- A) He will greatly surprise if they choose him.
- B) It will greatly surprise him if he is chosen.
- C) It will greatly surprise him if they choose him.
- D) He will greatly surprise him if they have chosen him.

Explanation

- A) He will greatly **surprise** if they choose him.
- B) It will greatly surprise him if **he is** chosen.
- C) It will greatly surprise him if they choose him.
- D) He will greatly **surprise** him if **they** have chosen him.

A ☐ B ☐ C ☒ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

- Choose the correct **Active Voice** of the given sentence.
When the sun got low, the king's son said, "Jack, since we have now money, where can we lodge this night?"
- A) When the sun got low, the king's son asked to Jack where could they lodge that night, since they had no money.
 - B) When the sun got low, the king's son asked Jack where they could lodge that night, since they had no money.
 - C) When the sun got low, the king's son asked Jack if where they lodged that night, since they had no money.
 - D) When the sun got low, the king's son asked to Jack where could they lodge that night, since they have no money.

Explanation

- A) When the sun got low, the king's son asked to Jack where could they lodge that night, since they had no money.
- B) When the sun got low, the king's son asked Jack where they could lodge that night, since they had no money.
- C) When the sun got low, the king's son asked Jack if where they lodged that night, since they had no money.
- D) When the sun got low, the king's son asked to Jack where could they lodge that night, since they have no money.

A ☐ B ☒ C ☐ D ☐



Koole



FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

In each of the following questions, four alternative sentences are given. Choose the **CORRECT** one.

- A) "Man is mortal," said the old wise man.
- B) "A man is mortal," said the old wise man.
- C) "The Man is mortal", said old wise man..
- D) "Man is a mortal," said the old wise man.

Explanation

- A) "Man is mortal," said the old wise man.
- B) "A man is mortal," said the old wise man.
- C) "The Man is mortal", said old wise man.
- D) "Man is a mortal," said the old wise man.

A



B



C



D



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Koole



FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

In each of the following questions, four alternative sentences are given. Choose the **CORRECT** one.

- A) I would rather they do something about it instead of just to talk about it.
- B) I would rather they did something about it instead of just to talk about it.
- C) I would rather they should do something about it instead of just talking about it.
- D) I would rather they did something about it instead of just talking about it.

Explanation

- A) I would rather they do something about it instead of just **to talk** about it.
- B) I would rather they did something about it instead of just **to talk** about it.
- C) I would rather they **should do** something about it instead of just talking about it.
- D) I would rather they **did something about it instead of just talking about it.**

A



B



C



D



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Koole



FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

In each of the following questions, four alternative sentences are given. Choose the **CORRECT** one.

- A) When God calls Himself All Hearing, it checks a person by using foul language.
- B) When God calls Himself All Hearing, it checks a person of using foul language.
- C) When God calls Himself All Hearing, it checks a person in using foul language.
- D) When God calls Himself All Hearing, it checks a person from using foul language.

Explanation

- A) When God calls Himself All Hearing, it checks a person **by** using foul language.
- B) When God calls Himself All Hearing, it checks a person **of** using foul language.
- C) When God calls Himself All Hearing, it checks a person **in** using foul language.
- D) When God calls Himself All Hearing, it checks a person from using foul language.

A



B



C



D



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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Identify the type of sentence.
The office to which I was directed was shut for lunch. Identify of Sentence.

- A) Simple
- B) Compound
- C) Complex
- D) Compound Complex

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Choose the correct answer:
Mum used to make my sisters the most wonderful clothes. Name the Function of the underlined phrase.

- A) Complement
- B) Predicate
- C) Noun Phrase
- D) Indirect object

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Choose the correct answer:

People whose names begin with A have a lot of advantages. Name the Underlined Clause.

- A) Non-restrictive Clause
- B) Adverb Claus
- C) Restrictive Clause
- D) Noun Clause

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Identify the Part of Speech of the underlined word.
I know the reason why he did it. Identify the Part of Speech of the underlined Word.

- A) Conjunction
- B) Relative Pronoun
- C) Relative Adverb
- D) Interrogative Adverb

A ☐ B ☐ C ☒ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Choose the best word(s) to complete each sentence.
To generate income, magazine publishers must decide whether to increase the subscription price or _____.

- A) to sell advertising
- B) if they should sell advertising
- C) selling advertising
- D) sold advertising

A B C D

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Choose the best word(s) to complete each sentence.
Since I do not know a great deal about the subject, I will _____ this question to my well-informed colleague.

- A) urge
- B) yield
- C) venture
- D) appraise

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Choose the word that is most nearly **SIMILAR** in meaning to the word in capital letters.

QUENCH

- A) ignite
- B) slake
- C) stoke
- D) kindle

A ☐ B ☒ C ☐ D ☐

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Choose the word that is most nearly **SIMILAR** in meaning to the word in capital letters.
REVOLVING

- A) torpid
- B) immutable
- C) inert
- D) pivoting

A ☐ B ☐ C ☐ D ☒

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Choose the word **OPPOSITE** in meaning to **CAPITALIZED** word given above.
TENTATIVELY

- A) wantonly
- B) sheepishly
- C) hesitantly
- D) intrepidly

A ☐ B ☐ C ☐ D ☒

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FLP-4 (Complete Syllabus)

Correct Incorrect Unattempted

Choose the word **OPPOSITE** in meaning to **CAPITALIZED** word given above.
ENCOURAGED

- A) Fortified
- B) Holistic
- C) Pessimistic
- D) Undaunted

A ☐ B ☐ C ☒ D ☒

FLP-4 KEY

SAEED MDCAT PLATFORM
HUZAIFA SAEED, USAMA SOHAIL

1-C	33-A	65-A	97-D	129-A
2-D	34-C	66-D	98-C	130-B
3-A	35-B	67-D	99-D	131-B
4-B	36-C	68-A	100-B	132-A
5-D	37-D	69-C	101-D	133-D
6-C	38-D	70-D	102-C	134-B
7-C	39-D	71-C	103-B	135-A
8-A	40-D	72-C	104-C	136-B
9-C	41-C	73-A	105-D	137-A
10-C	42-C	74-B	106-B	138-D
11-C	43-D	75-B	107-C	139-D
12-B	44-B	76-C	108-D	140-A
13-A	45-C	77-A	109-A	141-D
14-D	46-C	78-C	110-C	142-B
15-B	47-C	79-C	111-D	143-B
16-D	48-C	80-D	112-A	144-A
17-D	49-D	81-B	113-C	145-B
18-D	50-C	82-A	114-B	146-D
19-C	51-B	83-C	115-B	147-D
20-C	52-B	84-A	116-D	148-D
21-A	53-D	85-D	117-A	149-B
22-D	54-A	86-C	118-A	150-A
23-C	55-D	87-C	119-B	151-D
24-D	56-A	88-D	120-D	152-D
25-B	57-A	89-A	121-B	153-C
26-C	58-A	90-D	122-A	154-B
27-B	59-C	91-B	123-B	155-B
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30-D	62-C	94-B	126-D	158-D
31-B	63-A	95-C	127-A	159-D
32-B	64-C	96-B	128-B	160-B

Special Thanks to Ubaid Rashid

SAEED MDCAT TEAM

FB/SAEED MDCAT

161-D, 162-B, 163-B, 164-A, 165-C, 166-C, 167-C, 168-A
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key Prepared By Maha Ch

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